



हिमाचल प्रदेश सरकार
GOVERNMENT OF HIMACHAL PRADESH
हिमाचल प्रदेश लोक निर्माण विभाग
HIMACHAL PRADESH PUBLIC WORKS
DEPARTMENT
ANALYSIS OF RATES

2020

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BASIC RATES

0.1 HIRE CHARGES OF PLANTS & MACHINERY

Note :- These rates are exclusive of contractor's profit and over heads.

Code No.	Description	Unit	Rate ₹
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	800.00
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	3000.00
004	Production cost of concrete by batch mix plant	cum	350.00
005	Hire charges of Diesel Truck - 9 tonne	day	2000.00
006	Hire charges of Spraying machine including electric charges	day	250.00
007	Hire charges of Coaltar Sprayer	day	300.00
008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7700.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	210.00
010	Hire charges of Derrick monkey rope	day	750.00
011	Hire charges of Pump set of capacity 4000 litres/hour	day	700.00
012	Vibrator (Needle type 40 mm)	day	370.00
013	Machine for rubbing of floors	day	300.00
014	Front end loader capacity 1.00 cum	day	6000.00
015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	1900.00
016	Mastic Cooker	day	750.00
017	Hire and running charges of tipper	day	1700.00
018	Hire and running charges of loader	day	5000.00
019	Hand Grinder for mirror polish	day	250.00
020	Hydraulic Excavator (3D) with driver and fuel	day	7000.00
021	Pin vibrator	day	325.00
022	Surface Vibrator	day	400.00
023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	3500.00
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	30000.00

Code No.	Description	Unit	Rate ₹
025	Hire and running charges of light crane	day	3000.00
026	Hire and running charges of bentonite pump	day	3500.00
027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	30000.00
028	Hire and running charges of crane 20 tonne capacity	day	7000.00
029	Carriage of concrete by transit mixer	km/cum	30.00
030	Generator 250 KVA	day	2500.00
031	Steam curing by using boiler /Heater	cum	500.00
032	Stressing Machine (jack with pump)	day	11500.00
033	Paint applicator	day	750.00
034	Cutting saw machine	day	1350.00
035	Strands Roller machinery for laying strands	day	3500.00
036	Bed master (Pulling strands)	day	3000.00
037	Mobile crane	day	7500.00
038	Tractor with ripper attachment	day	1200.00
039	Tractor with trolley	day	1350.00
040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1600.00
041	0041 Joint cutting machine with 2-3 blades	day	800.00
042	C.C .batch mix plant	day	10000.00
043	Road sweeper	day	550.00
044	Cost for crane upto 40 tonne capacity	day	8000.00
045	Slip form paver with sensor	day	13000.00
046	Water tanker 5000 litre	day	1200.00
047	Concrete joint cutting machine	day	900.00
048	Texturing machine	day	925.00
049	Dozer D-80-A 12	hour	1500.00
050	Motor Grader 3.35 metre blade	hour	2450.00
051	Hydraulic Excavator of 1 cum bucket	hour	1000.00
052	Front end loader 1 cum bucket capacity	hour	900.00

Code No.	Description	Unit	Rate ₹
053	Tipper-5 Cum tonne	km	3.00
054	Vibratory roller 8 to 10 tonne	hour	600.00
055	Smooth Wheeled Roller 8 to 10 tonne	hour	300.00
056	Tandem Road Roller	hour	1200.00
057	Water Tanker 5 to 6 KL capacity	hour	150.00
058	Air compressor	hour	200.00
059	Wet Mix Plant 60 TPH	hour	800.00
060	Mechanical Broom Hydraulic	hour	360.00
061	Emulsion Pressure Distributor of capacity 1750 sqm per hour	hour	800.00
062	Hot mix Plant -120 TPH capacity	hour	15000.00
063	Hot mix Plant 100 TPH Capacity	hour	13000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	1500.00
065	Paver finisher Mechanical 100 TPH	hour	800.00
066	Batching and Mixing Plant @ 75 cum per hour	hour	2400.00
067	Cost for crane upto 80 tonne capacity	day	15000.00
068	Concrete Paver finisher with 40 HP Motor and sensor	hour	3000.00
069	Generator 250 KVA	hour	350.00
070	Generator 100 KVA/125 KVA	hour	250.00
071	Truck 5.5 cum/10 tonnes	tonne km	3.00
072	Cost for crane having capacity 50MT	day	8500.00
073	Road sweeper (Mechanical Broom) @ 1250 sqm per hour	hour	350.00
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	12000.00
075	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7500.00
076	Pile Integrity testing equipment	day	3000.00
077	Excavation of Diaphragm wall by Mechanical Grab	sqm	1300.00
078	Hire charges of TATA407 or equivalent for local shifting.	day	1200.00
079	Note :- 1. Above hire - charges (from item code 1 to 83) include cost of services of operating staff, Cost of lubricating oil, diesel / Petrol/ Kerosene oil , other consumables for running the plant and machinery and all the taxes. 2. The hire charges of plant machinery on per day basis are for single shift of eight working hours.		

Code No.	Description	Unit	Rate ₹
080	Hire charges of diesel truck - 9 tonne (without POL)	day	1500.00
081	Using cost of Ultra Violet Radiation tube	Hour	189.00
082	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel	day	4000.00
083	Hire Charges of Suction Jetting machine 2200 PSI machine i/c POL and operator	day	36000.00
084	Hire charges of Drill machine upto 30 mm dia	day	160.00
085	Hire charges of sand blasting equipment	day	160.00
086	Hire charges of compressor	day	420.00
087	Welding charges of shear key to existing reinforcement	each	5.00
088	Hire charges of plant and Machinery that can inject 350 kg/day	day	200.00
089	Hire Charges of Suction Jetting machine 1500 PSI machine i/c POL and operator	day	8000.00

BASIC RATES

0.2 LABOUR

Note :- These rates are exclusive of contractor's profit and over heads and are inclusive of wages for weekly day of rest.

Code No.	Description	Unit	Rate Excluding Paid Holiday ₹	Rate including 1/6th Paid Holiday ₹
0010	Bandhani	day	275.00	320.83
0011	Bhisti	day	275.00	320.83
0012	Blacksmith 1st class	day	408.00	476.00
0013	Blacksmith 2nd class	day	321.00	374.50
0014	Carpenter 1st class	day	408.00	476.00
0015	Carpenter 2nd class	day	321.00	374.50
0016	Chowkidar	day	275.00	320.83
0017	Beldar	day	275.00	320.83
0018	Coolie	day	275.00	320.83
0019	Fitter (grade 1)	day	408.00	476.00
0020	Assistant Fitter or 2nd class Fitter	day	321.00	374.50
0021	Glazier	day	321.00	374.50
0022	Mason (for plaster of paris work) 1st class	day	408.00	476.00
0023	Mason (brick layer) 1st class	day	408.00	476.00
0024	Mason (brick layer) 2nd class	day	321.00	374.50
0025	Mason (for plain stone work) 2nd class	day	321.00	374.50
0026	Mason (for ornamental stone work) 1st class	day	408.00	476.00
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	336.00	392.00
0028	Mate	day	275.00	320.83
0029	Sewer man	day	275.00	320.83
0030	Mistry	day	408.00	476.00
0031	Painter	day	321.00	374.50
0032	Rock Excavator	day	275.00	320.83
0033	Rock Breaker	day	275.00	320.83

Code No.	Description	Unit	Rate Excluding Paid Holiday ₹	Rate including 1/6th Paid Holiday ₹
0034	Rock Hole Driller	day	275.00	320.83
0035	Stone Chiseller	day	336.00	392.00
0036	Sprayer (for bitumen, tar etc.)	day	275.00	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	275.00	320.83
0038	White Washer	day	275.00	320.83
0039	Nozzel man/ gun man	day	321.00	374.50
0040	Mason (average)	day	321.00	374.50
0041	Carpenter (average)	day	321.00	374.50
0042	Operator (Pile/ Special machine)	day	336.00	392.00
0043	Skilled torch operator for laying tack	day	321.00	374.50
0044	Technician	day	321.00	374.50
0045	Helper (Technician)	day	275.00	320.83
0046	Labour for fabrication of uPVC extruded casement/ sliding windows and doors including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	485.00	485.00
0047	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	sqm	430.00	430.00
0048	Security guard without gun (8 hours shift duty per day)	day	308.00	359.33
0049	Security guard with gun (8 hours shift duty per day)	day	321.00	374.50

***Note:-Rates of labour approved vide Additional Chief Secretary (Finance) to the Govt. of vide letter HP No. FIN-(PR)B(7)-33/2010 dated 24th March, 2020.**

BASIC RATES

0.3 MATERIALS

Note :- These rates are exclusive of contractor's profit and over heads charges, carriage, octroi, excise duty (ED), sales tax (GST) etc.

Code No.	Description	Unit	Rate ₹
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	10.00
223	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement corrugated sheet 6 mm thick	sqm	225.00
224	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement close fitting adjustable ridge	metre	210.00
225	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement corrugate serrated adjustable ridge	metre	210.00
226	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement plain wing adjustable ridge	metre	210.00
227	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement unserrated adjustable ridge for hips	metre	210.00
228	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement corrugated apron piece	metre	200.00
229	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement eaves filler piece	each	175.00
230	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement north light curves	metre	280.00
231	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement north light curves	each	310.00
232	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement barge boards boards 6 mm thick	metre	400.00
233	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement ridge finial	pair	165.00
234	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement special north light curves	each	555.00
235	Fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement S type louvers	each	260.00
236	Multi purpose fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement board 6 mm thick	sqm	210.00
237	Multi purpose fibre (reinforced by organic fibres and / or inorganic synthetic fibre) cement board 8 mm thick	sqm	220.00
238	6 mm thick heavy duty fiber cement board	sqm	470.00
239	8mm thick heavy duty fiber cement board	sqm	300.00
240	9 mm thick heavy duty fiber cement board	sqm	625.00
241	12.5 mm thick Gypsum plaster board	sqm	170.00
242	6 mm thick multipurpose cement bonded wood particle board conforming to IS : 14276	sqm	195.00
243	8 mm thick multipurpose cement bonded wood particle board conforming to IS : 14276	sqm	215.00
244	Factory made light weight composite non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (50mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 4mm thick) confirming to IS 14862:2000	sqm	634.00
245	Factory made light weight composite non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (50mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 4mm thick) confirming to IS 14862:2000	sqm	789.00

Code No.	Description	Unit	Rate ₹
246	Factory made light weight non asbestos fibre reinforced aerated cement sandwitched wall/roof panel (75mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 5mm thick) confirming to IS 14862:2000	sqm	10.00
247	2mm thick sim pad	each	15.00
248	5mm thick sim pad	each	25.00
285	Brick Aggregate (Single size) : 63 mm nominal size	cum	650.00
286	Brick Aggregate (Single size) : 50 mm nominal size	cum	650.00
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	650.00
291	Stone Aggregate (Single size) : 63 mm nominal size	cum	1000.00
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	1000.00
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1300.00
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	1350.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1350.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1350.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1350.00
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1400.00
302	Safeda ballies 125 mm diameter	metre	40.00
303	Cowdung	cum	50.00
304	Bajri	cum	1000.00
305	Bamboo 25 mm dia 2.5 metre long	score	400.00
308	Bhusa	quintal	500.00
309	Paving bitumen of grade VG-10 of approved quality	tonne	25614.00
310	Bitumen emulsion	tonne	30099.00
312	Bitumen grade PMB - 40	tonne	32200.00
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	34000.00
314	Bitumen hot sealing compound : grade A	kg	28.00
316	Bitumen solution primer of approved quality	litre	45.00
317	Premoulded joint filler 12 mm thick	sqm	360.00
318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	70.00
319	Bitumen felt as per IS 7193 Grade II	sqm	80.00
322	Bitumen felt :Type 3 grade 1	sqm	70.00
323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	12.00
324	Coal Tar	litre	30.00
325	Blasting powder	kg	40.00
326	Blasting fuse (fuse wire)	each	15.00
328	White face insulating board: 12 mm thick	sqm	235.00
332	Natural colour insulating board: 12 mm thick	sqm	210.00
336	Flame retardant face insulating board: 12 mm thick	sqm	320.00
339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	375.00
341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	288.00
346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	230.00
347	Extra for veneered particle board with Commercial veneering on both sides	sqm	155.00
348	Extra for veneered particle board with Teak veneering on both sides	sqm	500.00
349	Curing compound	litre	38.00
351	Integral crystalline slurry	kg	238.00
352	Integral crystalline admixture	kg	272.00
353	Crystalline mortar	kg	215.00
354	Integral crystalline dry shake	kg	360.00

Code No.	Description	Unit	Rate ₹
355	Swellable type water stop tape	metre	365.00
356	Primer for swellable type water stop tape	litre	1540.00
357	Polymer modified adhesive mortar	kg	15.00
362	Brick bats	cum	450.00
364	Wire brush	each	20.00
365	Soft brush	each	20.00
367	Portland Cement (OPC-43 Grade)	tonne	4940.00
368	White Cement	tonne	11200.00
369	Plastic sheat, 1.25 mm thick for dowel bars	sqm	25.00
370	Coal (steam)	quintal	440.00
371	Sealant primer	kg	130.00
373	Cramp Gun metal 25x6x300 mm	each	80.00
374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	400.00
378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	775.00
379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	625.00
380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	380.00
381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	155.00
382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	1309.00
383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	997.00
384	Brass butt hinges (heavy type) :75x65x4.0 mm (weighing not less than 0.20 kg)	10 Nos	838.00
385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2610.00
386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2300.00
387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2090.00
388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1870.00
389	Brass single acting spring hinges 150 mm	each	425.00
390	Brass single acting spring hinges 125 mm	each	285.00
391	Brass single acting spring hinges 100 mm	each	250.00
392	Brass double acting spring hinges 150 mm	each	480.00
393	Brass double acting spring hinges 125 mm	each	400.00
394	Brass double acting spring hinges 100 mm	each	390.00
400	Brass tower bolt (barrel type) 250x10 mm	each	257.00
401	Brass tower bolt (barrel type) 200x10 mm	each	205.00
402	Brass tower bolt (barrel type) 150x10 mm	each	154.00
403	Brass tower bolt (barrel type) 100x10 mm	each	103.00
404	Brass flush bolt 250 mm	each	150.00
405	Brass flush bolt 150 mm	each	130.00
406	Brass flush bolt 100 mm	each	90.00
408	Brass handles 125 mm with plate 175x32 mm	each	144.00
409	Brass handles 100 mm with plate 150x32 mm	each	133.00
410	Brass handles 75 mm with plate 125x32 mm	each	103.00
411	Brass door latch 300x16x5 mmweighing not less than 0.380 kg	each	185.00
412	Brass door latch 250x16x5 mm weighing not less than 0.350 kg	each	175.00
413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	400.00
414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	310.00
417	Brass 150 mm floor door stopper weighing not less than 0.357kg	each	160.00
418	Brass hard drawn hooks and eyes 300 mm	10 Nos	600.00
419	Brass hard drawn hooks and eyes 250 mm	10 Nos	574.00
420	Brass hard drawn hooks and eyes 200 mm	10 Nos	510.00
421	Brass hard drawn hooks and eyes 150 mm	10 Nos	400.00
422	Brass hard drawn hooks and eyes 100 mm	10 Nos	345.00
423	Brass casement window fastener	each	45.00

Code No.	Description	Unit	Rate ₹
424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	126.00
425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	100.00
426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	95.00
427	Brass quadrant stays 300 mm	each	110.00
428	Brass fanlight catch	10 Nos	170.00
429	Brass fanlight pivot	10 Nos	168.00
430	Brass chain with hook for fan light catch	each	36.00
431	Brass hasps and staples (safety type) 150 mm	10 Nos	740.00
432	Brass hasps and staples (safety type) 115 mm	10 Nos	670.00
433	Brass hasps and staples (safety type) 90 mm	10 Nos	575.00
438	Brass night latch	each	610.00
442	Brass helical spring 150 mm	each	290.00
444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	140.00
445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	190.00
446	Brass brackets (curtain rods) 20 mm	each	45.00
447	Brass cupboard knob or wardrobe knob 50 mm	each	36.00
449	Brass screws 50 mm	100 Nos	220.00
450	Brass screws 40 mm	100 Nos	170.00
451	Brass screws 30 mm	100 Nos	140.00
452	Brass screws 25 mm	100 Nos	100.00
453	Brass screws 20 mm	100 Nos	95.00
0454	Stainless steel SS grade 304 , curtain rod 20 mm dia 1.20mm thick	Metre	125.00
0455	Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick	Metre	170.00
0456	Stainless steel SS grade 304, brackets (curtain rod) 20 mm dia 1.20mm thick	each	46.00
0457	Stainless steel SS grade 304, brackets (curtain rod) 25 mm dia 1.20mm thick	each	55.00
0458	plastic sleeves for screw	each	2.00
524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm weighing not less than 200gms	10 Nos	905.00
525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	805.00
526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	690.00
527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	421.00
528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	180.00
552	75mm SS fancy handles for kitchen cabinet	10 Nos.	255.00
553	100mm SS fancy handles for kitchen cabinet	10 Nos	455.00
554	125mm SS fancy handles for kitchen cabinet	10 Nos	640.00
555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	160.00
556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	140.00
557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	125.00
558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	470.00
568	Chromium plated brass casement window fastener	each	90.00
569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	140.00
570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	120.00
571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	100.00
583	Chromium plated Brass Night latch	each	500.00
584	Chromium plated Brass Wardrobe Knob 50 mm	each	80.00

Code No.	Description	Unit	Rate ₹
585	Chromium plated Brass screws 50 mm	100 Nos	300.00
586	Chromium plated Brass screws 40 mm	100 Nos	290.00
587	Chromium plated Brass screws 30 mm	100 Nos	240.00
588	Chromium plated Brass screws 25 mm	100 Nos	180.00
589	Chromium plated Brass screws 20 mm	100 Nos	160.00
590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	185.00
591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	260.00
592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	340.00
593	C.P. Brass Extension Nipple (1/2"x2" size)	each	40.00
594	Bright finished or black enameled mild steel butt hinges 125x65x 2.12 mm	10 Nos	135.00
595	Bright finished or black enameled mild steel butt hinges 100x58x 1.90 mm	10 Nos	80.00
596	Bright finished or black enameled mild steel butt hinges 75x47x 1.70 mm	10 Nos	56.00
597	Bright finished or black enameled mild steel butt hinges 50x37x 1.50 mm	10 Nos	49.00
608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	39.00
635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	75.00
637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	60.00
638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	45.00
639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	36.00
640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30.00
641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	5.00
642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	130.00
643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	85.00
644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	63.00
645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	53.00
646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	334.00
647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	309.00
648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	231.00
649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	196.00
650	Oxidised mild steel single acting spring hinges 150 mm	each	138.00
651	Oxidised mild steel single acting spring hinges 125 mm	each	118.00
652	Oxidised mild steel single acting spring hinges 100 mm	each	98.00
653	Oxidised mild steel double acting spring hinges 150 mm	each	157.00
654	Oxidised mild steel double acting spring hinges 125 mm	each	135.00
655	Oxidised mild steel double acting spring hinges 100 mm	each	118.00
656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	44.00
660	Oxidised mild steel sliding door bolt 300x16 mm	each	93.00
661	Oxidised mild steel sliding door bolt 250x16 mm	each	84.00
662	Oxidised mild steel door latch 300x20x6 mm	each	49.00
663	Oxidised mild steel door latch 250x20x6 mm	each	39.00
664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	43.00
665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	34.00
666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	29.00
667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	20.00
668	Oxidised mild steel handles 125 mm	each	20.00
669	Oxidised mild steel handles 100 mm	each	15.00
670	Oxidised mild steel handles 75 mm	each	12.00
679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	128.00
680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	108.00
681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	79.00
682	Oxidised mild steel screws 50 mm	100 Nos	76.00

Code No.	Description	Unit	Rate ₹
683	Oxidised mild steel screws 40 mm	100 Nos	62.00
684	Oxidised mild steel screws 30 mm	100 Nos	49.00
685	Oxidised mild steel screws 25 mm	100 Nos	36.00
686	Oxidised mild steel screws 20 mm	100 Nos	32.00
687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	560.00
688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	393.00
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	393.00
690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	270.00
691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	324.00
692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	275.00
693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	226.00
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	196.00
696	Anodised Aluminium sliding door bolt 300x16 mm	each	147.00
697	Anodised Aluminium sliding door bolt 250x16 mm	each	128.00
698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	580.00
699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	481.00
700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	383.00
701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	304.00
702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	226.00
703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	324.00
704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	275.00
705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	231.00
706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	142.00
713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1800.00
714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1600.00
715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1400.00
717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	950.00
718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	900.00
719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	890.00
752	Block board construction flush door lipping 25 mm thick	sqm of door area	300.00
753	Square vision panel in Block board construction flush door not exceeding 0.10 sqm	sqm of door area	130.00
754	Circular vision panel in Block board construction flush door	sqm of door area	135.00
755	Decorative type louvers in Block board construction flush door	sqm of door area	265.00
757	Rebate cutting in block board construction flush door	sqm of door area	70.00
759	Decorative plywood 4 mm	sqm	320.00
761	Fuel wood	quintal	500.00
763	Glue	kg	75.00
764	Calcium silicate base compound for jointing calcium silicate tiles	kg	26.00
765	Hessian cloth	sqm	35.00
768	Cement Concrete Jali 50 mm thick	sqm	400.00
769	Cement Concrete Jali 40 mm thick	sqm	350.00
770	Cement Concrete Jali 25 mm thick	sqm	275.00
771	Kerosene oil	litre	50.00
772	White cement based polymer modified self curing compound in powder form	kg	15.00
773	Unslaked lime	quintal	300.00

Code No.	Description	Unit	Rate ₹
775	Dehradun white lime	quintal	600.00
776	Satna lime	quintal	370.00
777	Dry hydrated lime (factory made)	quintal	290.00
784	Marble dust/ powder	cum	1130.00
785	Marble chips up to 4 mm and down size White & black	quintal	189.00
788	Marble chips large size above 4 mm White & black	quintal	250.00
801	Silicon and acrylic emulsion	litre	130.00
802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	36.00
803	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	94.00
804	Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	220.00
806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	105.00
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	50.00
809	Exterior primer	kg	140.00
810	Moorum	cum	500.00
811	Mud (dry)	cum	165.00
815	Dry distemper	kg	30.00
816	Oil bound washable distemper/ Acrylic distemper	kg	50.00
818	Linseed oil (double boiled)	litre	200.00
820	Cement primer	litre	80.00
821	Distemper primer	litre	70.00
823	Pink primer (for wood)	litre	105.00
824	White cement based putty	kg	13.00
826	Aluminium paint	litre	150.00
827	Acid proof paint (chocolate or black)	litre	225.00
828	Anticorrosive bituminous paint (black)	litre	100.00
829	Black Japan paint	litre	90.00
830	Enamel paint	litre	165.00
831	Floor enamel paint in all shades except green	litre	250.00
833	Synthetic enamel paint in black or chocolate shade	litre	170.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	160.00
835	Plastic emulsion paint	litre	200.00
836	100% Premium acrylic dirt resistance, Silicone additives exterior paint	litre	270.00
837	Acrylic Exterior Primer	litre	100.00
845	Roofing paint for iron sheets in red colour	litre	120.00
850	White lead	kg	170.00
851	Water proofing cement paint	kg	38.00
855	Wax polish (ready made)	kg	230.00
856	Ordinary varnish	litre	100.00
857	Superior copal varnish	litre	115.00
858	Superior spar varnish	litre	115.00
859	Oil type wood preservative	litre	130.00
863	Putty for wood work	kg	30.00
865	Pig lead	kg	130.00
868	Premixed super white gypsum plaster	kg	6.00
869	Plaster of Paris	kg	5.00
870	Plug	each	10.00
873	Copper pins 6 mm dia 7.5 cm long	each	10.00
874	Black colour dark shade pigment	kg	70.00
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg	60.00

Code No.	Description	Unit	Rate ₹
876	Green or blue medium shade pigment	kg	56.00
886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	45.00
966	Sand Cast iron plain shoe 150 mm dia	each	285.00
967	Copper plate	kg	527.00
969	Pulley 25 mm dia	each	48.00
973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1400.00
974	Top cover for rolling shutters 1.25 mm thick	metre	800.00
975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	300.00
976	Ball bearing for rolling shutters	each	260.00
977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80sqm area of door	sqm	800.00
978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	800.00
979	Royalty for good earth	cum	40.00
980	Royalty for sludge	cum	90.00
982	Coarse sand	cum	1350.00
983	Fine sand	cum	900.00
992	Galvanised steel plain sheets	quintal	5000.00
0993	FY-1860 grade wire strands	quintal	5700.00
994	Standard quality hard board sheet 3 mm thick	sqm	135.00
996	Standard quality hard board sheet 4.5 mm thick	sqm	210.00
999	Shellac	kg	300.00
1000	Spirit	litre	48.00
1001	Spun yarn	kg	50.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1003	Mild steel round bar above 12 mm dia	quintal	4400.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	4500.00
1005	Twisted steel/ deformed TMT bars Fe-500D	quintal	4600.00
1006	Mild steel square bars	quintal	4500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4600.00
1008	Flats up to 10 mm in thickness	quintal	4500.00
1009	Flats exceeding 10 mm in thickness	quintal	4600.00
1010	Mild steel plates	quintal	4800.00
1011	Steel glazed door, window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	54.00
1012	Pregalvanized high tensile steel confirming to IS:277-199	kg	90.00
1013	Mild steel sheets of 1.00 mm thickness for tanks	quintal	4600.00
1015	Mild steel expanded metal 20x60 mm strands 3.25 mm wide 1.60 mm thick	sqm	280.00
1019	Mild steel hooks	each	32.00
1020	Mild steel rivets	quintal	5000.00
1021	Hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75 kg/sqm	sqm	430.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	38.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	120.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	9.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	10.00
1027	Erection Bolts (Minimum 04 nos for each element)	each	25.00
1028	Straining bolts	each	80.00
1029	Galvanised steel barbed wire of 9.8 kg /100metre	quintal	5500.00
1030	Galvanised steel turn buckles	each	25.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	20.00

Code No.	Description	Unit	Rate ₹
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.00
1034	Bolts and nuts up to 300 mm in length	quintal	4800.00
1035	Bolts and nuts above 300 mm in length	quintal	5100.00
1036	Iron pintels including welded pin	each	37.00
1143	Steel beading 10x10x1.6mm (box type)	metre	27.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	90.00
1149	Glass strip 4 mm thick 40 mm deep	metre	20.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	80.00
1154	Through and bond stone	100 Nos	5000.00
1157	Stone for masonry work	cum	1100.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	600.00
1159	Stone dust	cum	1100.00
1160	Red sand stone block	10 cudm	79.00
1161	White sand stone block	10 cudm	205.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	900.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	200.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	200.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	200.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	280.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	301.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	225.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	240.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	800.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	900.00
1182	Surkhi	cum	700.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1187	First class teak wood in scantling	10 cudm	880.00
1188	First class teak wood in planks	10 cudm	850.00
1189	Second class teak wood in scantling	10 cudm	776.00
1190	Second class teak wood in planks	10 cudm	791.00
1191	Marandi wood in planks	10 cudm	440.00
1192	Marandi wood in scantling	10 cudm	431.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	300.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1199	Sal wood in scantling	10 cudm	600.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	285.00
1202	Precast terrazzo tiles 22 mm thick (medium shade)	sqm	265.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	245.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	409.00
1207	G.I. Limpet washer	100 Nos	21.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1210	G.I. plain washer thin	100 Nos	21.00
1211	G.I. plain washer for seam bolts	100 Nos	32.00
1213	Water proofing materials	kilogram	35.00
1214	Welding by gas plant	cm	2.00
1215	Welding by electric plant	cm	2.00
1216	Whiting	quintal	600.00
1217	GI Wire mesh 100x100 mm	Kg	75.00
1218	Shear stud	each	50.00

Code No.	Description	Unit	Rate ₹
1219	Wire nails	kilogram	58.00
1220	Wire mesh (rabbit)	sqm	42.00
1221	20 mm dia holding down bolts	quintal	6100.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	120.00
1223	Steel weld mesh	sqm	150.00
1224	Hard drawn steel wire	quintal	4800.00
1225	Mild steel flat strap fitting	quintal	4120.00
1227	Chequered terrazzo tiles 22 mm thick (light shade)	sqm	275.00
1228	Chequered terrazzo tiles 22 mm thick (medium shade)	sqm	300.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	260.00
1231	Extra for selected planks of second class teakwood	10 cudm	150.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	135.00
1235	Diesel	litre	73.50
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00
1238	Extra for selected planks of first class teakwood	10 cudm	150.00
1239	18 mm thick Flamed finish granite stone slab	sqm	1000.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3209.00
1241	Commercial LPG in cylinder	kg	82.00
1242	Glass mosaic tiles (20 mm x 20 mm x 4 mm)	sqm	2049.00
1243	Tile fixing chemical adhesive	kg	8.70
1244	Cement Polymer Grout Compound	kg	16.00
1245	Acid for cleaning tiles	litre	18.00
1246	Silicon based Joint Sealant for Tiles	kg	160.00
1247	Rubber base Adhesive	kg	223.00
1248	Epoxy based sealing Compound	kg	535.00
1249	Acrylic based sealing compound	kg	500.00
1250	Non woven reinforcement Tape	metre	0.14
1251	M-60 grade cementitious grout (Non Shrink)	kg	28.00
1252	Cementitious polymer base adhesive confirming to EOTA ETAG 004 (European Technical Approval)	kg	34.00
1253	Polypropylene mechanical fastener with plastic pin confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm	each	30.00
1254	Moisture cure Polyurethane Foam	750 ml	600.00
1255	PVC Corner Bead of size 25mmx25mm fixed with glass fibre mesh (100mm x 100mm)	metre	90.00
1256	Cementitious polymer base coat confirming to EOTA ETAG 004 (European Technical Approval)	kg	40.00
1257	Fiberglass mesh with alkali-resistant coating having mass per unit area 145 g/m ² , mesh size: 3.9x4.0 mm ±10%	sqm	75.00
1301	Bleaching powder	quintal	1800.00
1304	Surface box for stop cock	each	125.00
1305	Surface box for sluice valve	each	210.00
1307	Surface box for water meter	each	250.00
1309	C.I. bracket for wash basin and sinks	pair	88.00
1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.	each	200.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	40.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
1316	50mmx50mm hardwood plug	each	75.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	67.50
1331	M.S. Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	30.00
1332	M.S. Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	27.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	35.00

Code No.	Description	Unit	Rate ₹
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	37.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1339	Brass bib-cock 15 mm dia	each	210.00
1340	Brass bib-cock 20 mm dia	each	225.00
1342	Brass stop-cock 15 mm dia	each	210.00
1343	Brass stop-cock 20 mm dia	each	225.00
1350	Mosquito proof coupling of approved design	each	30.00
1352	C.I. cover and frame 300x300 mm inside	each	477.00
1353	C.I. cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	477.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1400.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	910.00
1356	500 mm dia cover with frame (medium duty)	each	4400.00
1357	500 mm dia cover without frame (medium duty)	each	2300.00
1360	C.I. mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I. mouth, brass ferrule 20 mm dia	each	160.00
1362	C.I. mouth, brass ferrule 25 mm dia	each	220.00
1363	Vitreous china foot rests 250x130x30 mm	pair	100.00
1364	C.I. grating 100x100 mm	each	40.22
1366	C.I. grating 150x150 mm	each	54.42
1367	C.I. grating 180x180 mm	each	65.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	25.00
1373	Rubber insertions for 75 mm dia pipe joints	each	16.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1375	Rubber insertions for 125 mm dia pipe joints	each	20.00
1376	Rubber insertions for 150 mm dia pipe joints	each	20.00
1377	Rubber insertions for 200 mm dia pipe joints	each	25.00
1378	Rubber insertions for 250 mm dia pipe joints	each	40.00
1379	Rubber insertions for 300 mm dia pipe joints	each	45.00
1380	Rubber insertions for 350 mm dia pipe joints	each	50.00
1381	Rubber insertions for 400 mm dia pipe joints	each	73.00
1382	Rubber insertions for 450 mm dia pipe joints	each	92.00
1383	Rubber insertions for 500 mm dia pipe joints	each	110.00
1384	Rubber insertions for 600 mm dia pipe joints	each	125.00
1392	Mirror of superior make glass 60x45 cm	each	400.00
1396	Vitreous china pedestal for wash basin	each	900.00
1397	Pig lead	kg	176.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3600.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3700.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5500.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5500.00
1472	Casing pipe 100 mm dia	metre	335.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	270.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	400.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	520.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	600.00
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	175.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	250.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	300.00

Code No.	Description	Unit	Rate ₹
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	390.00
1545	G.I. pipes 15 mm dia	metre	91.00
1546	G.I. pipes 20 mm dia	metre	120.00
1547	G.I. pipes 25 mm dia	metre	171.00
1548	G.I. pipes 32 mm dia	metre	215.00
1549	G.I. pipes 40 mm dia	metre	250.00
1550	G.I. pipes 50 mm dia	metre	310.00
1551	G.I. pipes 65 mm dia	metre	395.00
1552	G.I. pipes 80 mm dia	metre	505.00
1555	G.I. back (jam) nuts 25 mm dia	each	15.00
1559	G.I. back (jam) nuts 65 mm dia	each	25.00
1608	G.I. tees (equal) 25 mm	each	50.00
1612	G.I. tees (equal) 65 mm	each	452.00
1614	G.I. inlet connection	each	60.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	1050.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1135.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150 mm dia	each	1750.00
1620	S.C.I. plain bend 75 mm dia	each	210.00
1621	S.C.I. plain bend 100 mm dia	each	258.00
1622	S.C.I. plain bend 150 mm dia	each	460.00
1624	S.C.I. bend with access door 75 mm dia	each	240.00
1625	S.C.I. bend with access door 100 mm dia	each	300.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	278.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	360.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	320.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	405.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	382.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	590.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	500.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	715.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	191.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	239.00
1641	G.I. Union 15 mm nominal bore	each	30.00
1642	G.I. Union 20 mm nominal bore	each	49.00
1643	G.I. Union 25 mm nominal bore	each	108.00
1644	G.I. Union 32 mm nominal bore	each	141.00
1645	G.I. Union 40 mm nominal bore	each	192.00
1646	G.I. Union 50 mm nominal bore	each	249.00
1647	G.I. Union 65 mm nominal bore	each	504.00
1648	G.I. Union 80 mm nominal bore	each	563.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	5.50
1653	Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia	each	494.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	550.00
1659	Sand cast iron S&S plain double unequal junctions: 100x100x75x75 mm dia	each	615.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	700.00
1666	Sand cast iron heel rest bend 75 mm dia	each	274.00

Code No.	Description	Unit	Rate ₹
1667	Sand cast iron heel rest bend 100 mm dia	each	347.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	320.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	410.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	410.00
1673	S.C.I. double equal invert branch of required degree 100x100x 100x100 mm dia	each	550.00
1674	S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia	each	495.00
1677	S.C.I. double unequal invert branch of required degree 100x100x 75x75 mm dia	each	570.00
1682	S.C.I. door pieces 75 mm dia	each	283.00
1683	S.C.I. door pieces 100 mm dia	each	475.00
1685	S.C.I. collar 75 mm dia	each	177.00
1686	S.C.I. collar 100 mm dia	each	246.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	30.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	35.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	35.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	48.00
1693	S.C.I. hand pump	each	670.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	200.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	212.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	350.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	445.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	750.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	925.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	1100.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1485.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1800.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	2500.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	2900.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	3200.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	3510.00
1714	R.C.C. collars NP2 class 100 mm dia	each	30.00
1715	R.C.C. collars NP2 class 150 mm dia	each	35.00
1716	R.C.C. collars NP2 class 250 mm dia	each	50.00
1717	R.C.C. collars NP2 class 300 mm dia	each	55.00
1718	R.C.C. collars NP2 class 450 mm dia	each	100.00
1719	R.C.C. collars NP2 class 500 mm dia	each	115.00
1720	R.C.C. collars NP2 class 600 mm dia	each	140.00
1721	R.C.C. collars NP2 class 700 mm dia	each	150.00
1723	R.C.C. collars NP2 class 800 mm dia	each	200.00
1724	R.C.C. collars NP2 class 900 mm dia	each	235.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	280.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	300.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	350.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1496.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1995.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3150.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3885.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5040.00

Code No.	Description	Unit	Rate ₹
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1733.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2310.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4494.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5565.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	6510.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	13650.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	55.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	100.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	200.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	250.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	320.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	478.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1283.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	1500.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	2500.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	400.00
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	310.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	100.00
1879	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	each	125.00
1880	Dismanteled P or S trap scrap (approx wt 2kg)	kg	22.00
1881	Spun yarn	kg	50.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	600.00
1885	15 mm C.P. brass tap	each	207.00
1889	C.P. brass toilet paper holder of standard size	each	225.00
1890	Centrifugally SCI(spun) S & S P or S trap	each	300.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	170.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	225.00
1895	C.P. brass trap 40 mm dia	each	300.00
1896	100 mm S.C.I. trap with vent heel	each	320.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	271.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	218.00
1900	S.W. gully trap P type 100x100 mm	each	100.00
1902	S.W. gully trap P type 150x100 mm	each	130.00
1904	S.W. gully trap P type 180x150 mm	each	225.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	1053.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	210.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	235.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	230.00
1926	20 mm dia Gunmetal gate valve with wheel	each	325.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	350.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	410.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	480.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	620.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1080.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1620.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	330.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	450.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	560.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	820.00

Code No.	Description	Unit	Rate ₹
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1490.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2120.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2410.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	2600.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3600.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	7500.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	10980.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	15500.00
1947	Vitreous china flat back wash basin 630x450 mm	each	725.00
1949	Vitreous china angle back wash basin 600x480 mm	each	725.00
1950	Vitreous china angle back wash basin 400x400 mm	each	425.00
1951	C.P. brass waste 32 mm	each	80.00
1952	C.P. brass waste 40 mm	each	95.00
1953	Vitreous china Indian type W.C. pan of size 580 mm	each	450.00
1954	Vitreous china orrisa type W.C. pan of size 580 mm	each	1200.00
1955	Vitreous china pedestal type water closet	each	1000.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	11.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	12.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	17.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	16.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	18.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	28.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	32.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	38.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	2500.00
1966	Floor mounted white vitreous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures, seat cover etc	each	9500.00
1970	Vitreous china foot rests 250x125x25 mm	pair	100.00
1980	Fly ash	cum	10.00
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	4500.00
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	5000.00
2200	Carriage of Steam coal	tonne	121.29
2201	Carriage of Bricks	1000 Nos	283.01
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	106.13
2203	Carriage of Coarse sand	cum	106.13
2204	Carriage of Timber	cum	121.29
2205	Carriage of Steel	tonne	94.34
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	115.36
2207	Carriage of Brick tiles	1000 Nos	169.81
2208	Carriage of Lime	cum	106.13
2209	Carriage of Cement	tonne	94.34
2211	Carriage of Tar / Bitumen	tonne	106.13
2215	Carriage of Soling stone & masonry stone	cum	124.86
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	94.34
2224	Carriage of S.W. pipes 100 mm dia	100 metre	141.51
2225	Carriage of S.W. pipes 150 mm dia	100 metre	283.01
2226	Carriage of S.W. pipes 200 mm dia	100 metre	471.69
2228	Carriage of S.W. pipes 250 mm dia	100 metre	808.61
2229	Carriage of S.W. pipes 300 mm dia	100 metre	1010.76
2241	Carriage of Good earth	cum	132.66
2242	Carriage of Dump manure by mechanical transport upto 5 km lead	cum	115.36
2260	Carriage of Brick aggregate	cum	115.36

Code No.	Description	Unit	Rate ₹
2261	Carriage of Fine sand	cum	106.13
2262	Carriage of Flyash	cum	106.13
2264	Carriage of Rubbish	cum	106.13
2265	Carriage of Moorum	cum	106.13
2266	Carriage of Surkhi	cum	106.13
2267	Carriage of Stone dust	cum	106.13
2268	Carriage of Marble dust and/or marble chips	cum	106.13
2271	Carriage of G.I. pipes below 100 mm dia	tonne	94.34
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	94.34
2273	Carriage of A.C.sheet and accessories	tonne	94.34
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	231.98
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	386.63
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	893.73
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	1104.66
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	2577.54
2302	Carriage of G.I. sheet and accessories	tonne	94.34
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3866.30
2308	Carriage of Plaster of paris	tonne	94.34
2309	Carriage of Cast Iron fittings	tonne	94.34
2311	Carriage of bajri	cum	106.13
2314	Carriage of Barbed wire	tonne	94.34
2317	Carriage of Sludge	cum	115.36
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	231.98
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	309.87
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	386.63
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	628.92
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	893.73
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	1104.66
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	1546.52
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	2108.89
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	2577.54
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	2577.54
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	3866.30
2330	Carriage of C.I. pipes 500 mm dia	100 metre	2577.54
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	5799.46
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	7732.61
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	7732.61
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	7732.61
2335	Carriage of sand	cum	106.13
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7732.61
2341	Carriage of Pig lead	tonne	94.34
2342	Carriage of Solvent / Diesel.	quintal	10.61
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	231.98
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	386.63
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	628.92
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	893.73
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	1104.66
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	1546.52
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	2108.89
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	2577.54
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	2577.54
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	3866.30
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	3866.30
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	3866.30

Code No.	Description	Unit	Rate ₹
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	5799.46
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	7732.61
2358	Carriage of Bamboo Mat corrugated sheets and accessories	tonne	11500.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	278.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	370.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00
2394	Coupler 16 mm dia	each	30.00
2395	Coupler 20 mm dia	each	39.00
2396	Coupler 25 mm dia	each	69.50
2397	Coupler 28 mm dia	each	80.00
2398	Coupler 32 mm dia	each	110.00
2399	Complete Roof Joint of 100 mm	metre	2800.00
2400	Complete Roof Joint of 150 mm	metre	3200.00
2401	Complete Roof Joint of 200 mm	metre	4000.00
2402	Epoxy adhesive	kg	150.00
2403	Floor Joint of 100 mm	metre	3100.00
2404	Floor Joint of 150 mm	metre	4000.00
2405	Floor Joint of 200 mm	metre	5400.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	300.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	500.00
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	610.00
2409	Wall Joint of 100 mm	metre	2400.00
2410	Wall Joint of 150 mm	metre	2800.00
2411	Wall Joint of 200 mm	metre	3400.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	300.00
2413	12 mm commercial ply	sqm	500.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	760.00
2415	21mm thick clear toughened Laminated glass for fins with holes	sqm	6000.00
2447	Hollock ballies 125 mm diameter	metre	35.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	60.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	55.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	85.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	90.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	105.00
2455	Brass hanging type door stopper 150 mm	each	75.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	673.00
2459	Anodised Aluminium hanging type door stopper	each	19.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	46.00
2465	Anodised Aluminium Casement stay 250 mm	each	32.00
2466	Hollock wood in scantling	10 cudm	350.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	165.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	60.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	70.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	95.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	120.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	850.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	870.00

Code No.	Description	Unit	Rate ₹
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	950.00
2484	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	sqm	460.00
2485	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	sqm	597.00
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 25 mm thick confirming to IS: 14587	sqm	860.00
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	sqm	430.00
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	sqm	565.00
2489	PVC edge bending tape 2.00 mm thick	metre	20.00
2491	Pre laminated both side solid foam uPVC profile (45x20mm)	metre	130.00
2492	Solid foam uPVC sheet 20mm thick pre laminated on both side	sqm	2090.00
2493	PVC edge beading	metre	31.00
2494	Expandable fastner with plastic sleeve	each	5.00
2500	Extra for selected planks of second class deodar wood	10 cudm	110.00
2504	Kiln seasoning of timber	cum	750.00
2505	Hollock wood in planks	10 cudm	390.00
2506	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 60 mm	10 Nos	260.00
2507	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 80 mm	10 Nos	300.00
2508	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 Nos	365.00
2509	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm	10 Nos	450.00
2510	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 160 mm	10 Nos	575.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4500.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	4000.00
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540- F & ISO 11600 incl all taxes	each	532.00
2605	Structural sealant - 6 mm x 12 mm	metre	30.00
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	20.00
2607	Weather Sealant - Non Staining (600 ml)	each	325.00
2608	Weather Sealant - Normal (300 ml)	each	98.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	100.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	465.00
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	150.00
2612	Anchor Fastner - M10	each	10.00

Code No.	Description	Unit	Rate ₹
2613	SS Bolt with washer of different sizes for structural glazing / ACP Cladding	each	35.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	3.00
2615	Protective Tape	metre	20.00
2616	GI flashing - 1.2 mm Thick	kg	59.00
2617	6 mm thick High performance glass	sqm	1000.00
2618	6 mm thick clear heat strengthened glass	sqm	650.00
2619	6 mm thick clear heat strengthened glass	each	128.00
2620	ARMS GS HD - Top Hung -20"- Type P- Couple	pair	1350.00
2621	Connection Block for vision glass panel	each	35.00
2622	Curtain wall striker for vision glass panel	each	85.00
2623	Adjustable Fastening Pawl for vision glass panel	each	35.00
2624	Corner drive for vision glass panel	each	255.00
2625	Top wedge Block for vision glass panel	each	120.00
2626	Glass wool of denisity @ 48 Kg / cum with black glass tissue (BGT)	sqm	250.00
2627	SS Screws - # 8 x 19	each	6.00
2628	Weather Sealant - DC 789	cartridge	120.00
2629	Cement Board	sqm	235.00
2630	Baker rod	metre	5.00
2631	4 mm thick ACP	sqm	1100.00
2632	Fire Stop	metre	480.00
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	55.00
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section	each	3.00
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	3.00
2637	Vapour barrier	sqm	175.00
2640	Clear.toughned interlayed,non-wired fire resistant glass panes of minimum 11 mm thickness (120 minutes fire rating)	sqm	25000.00
2641	G.I U beading of 1.6 mm thick G.I sheet with ceramic tape.	metre	245.00
2642	Ceramic tape 5 x20 mm size	metre	410.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kg	240.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	500.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	135.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	150.00
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	750.00
2712	Zinc Electroplated Pedestals - 300 mm	each	140.00
2713	Zinc Electroplated Pedestals - 450 mm	each	200.00
2714	Zinc Electroplated Tube Stinger	each	66.00
2715	Machine Screw for Fixing	each	2.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	400.00
2901	Stone Aggregate (Single size): 100 mm nominal size	cum	1350.00
2902	Stone Aggregate (Single size): 80 mm nominal size	cum	1350.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1400.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1400.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	500.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	480.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1150.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1150.00
2914	Solvent	kg	25.00
2916	Paving Asphalt VG 10 of approved quality	tonne	24000.00
3002	Polyvinyl chloride sheet 400 micron thick	sqm	40.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	40.00

Code No.	Description	Unit	Rate ₹
3050	Galvanised steel corrugated sheets	quintal	5600.00
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	350.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	500.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	700.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	900.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1500.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1000.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P.	each	250.00
	brass brackets and guard rail of standard size		
3229	Vitreous china flat back wash basin 550x400 mm	each	545.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2500.00
3311	C.I. sluice valve (with caps) class II : 100 mm dia	each	2700.00
3314	C.I. sluice valve (with caps) class II : 125 mm dia	each	3200.00
3317	C.I. sluice valve (with caps) class II : 150 mm dia	each	4000.00
3320	C.I. sluice valve (with caps) class II : 200 mm dia	each	8900.00
3321	C.I. sluice valve (with caps) class II : 250 mm dia	each	14500.00
3326	C.I. sluice valve (with caps) class II : 300 mm dia	each	18200.00
3327	15 mm Battery Based Sensor Pillar Cock	each	5800.00
3617	C.P. Brass union 40mm dia	each	200.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 100 mm dia	each	1200.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia	each	1100.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	300.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	250.00
3628	S.C.I. S&S bend 100 mm dia	each	265.00
3629	S.C.I. S&S bend 75 mm dia	each	195.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	296.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	250.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	472.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	330.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	495.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	373.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	620.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	462.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm	each	615.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm	each	480.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	570.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	640.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	800.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm	each	850.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	425.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	323.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x100 mm dia	each	530.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	425.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	545.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	725.00

Code No.	Description	Unit	Rate ₹
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	285.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	390.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	300.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	383.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	358.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	455.00
3728	S.C.I. S&S door pieces 100 mm dia	each	400.00
3729	S.C.I. S&S door pieces 75 mm dia	each	295.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	264.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	210.00
3738	S.C.I. S&S, collars 100 mm	each	279.00
3739	S.C.I. S&S, collars 75 mm	each	170.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	218.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	363.00
3749	Vitreous china toilet paper holder of standard size	each	100.00
3860	560 mm dia cover with frame (Heavy duty)	each	9000.00
3861	560 mm dia cover without frame (Heavy duty)	each	5000.00
3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window/door frame, sash, mullion & small series sliding window frame	metre	66.00
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window/door frame, sash, mullion, big & small series sliding window frame	metre	71.00
3993	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door sash	metre	97.00
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window / door sash	metre	86.00
3995	G.I fasteners 100 x 8 mm	each	14.00
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	220.00
4002	Stainless steel bolts/square bar and plates	kg	115.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	190.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	210.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	240.00
4009	Mild steel tubes hot finished welded type	kg	57.00
4010	Mild steel tubes hot finished seamless type	kg	67.00
4011	Mild steel tubes electric resistant or induction butt welded	kg	47.00
4012	Circular C.I. Box for ceiling fan internal dia 140 mm, 73 mm height, toplid of 1.5mm thick MS sheet	each	52.00
4013	Pulley 40 mm dia	each	30.00
4201	Aluminium primer	litre	110.00
4202	Red oxide Zinc chromate primer	litre	110.00
4203	Copper acetate	kg	285.00
4204	Hydrochloric acid	kg	33.00
4205	Copper chloride	kg	270.00
4206	Copper nitrate	kg	210.00
4207	Ammonium chloride	kg	20.00
5001	Mobil oil	litre	315.00
5050	SS pipe 304 grades with press fit technology as per JIS 3448 Standard 48.60 mm outer dia	metre	650.00
5743	Coloured inter locking C.C. paver Block	sqm	480.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1430.00
6007	Pink marble slab plain 18 mm thick	sqm	645.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	620.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	900.00
6501	Sand zone V (Jamuna)	cum	1225.00

Code No.	Description	Unit	Rate ₹
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	210.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	215.00
7004	Vitreous china flat back wash basin 450x300 mm	each	310.00
7005	Vitreous china 10 litres low level cistern without fittings	each	715.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1240.00
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	4800.00
7009	12.5 mm thick tapered edge gypsum plain board	sqm	155.00
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	46.00
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	22.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	38.00
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	12.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	4.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	3.00
7016	Joint filler	kg	26.00
7017	Joint finisher	kg	23.00
7018	Joint tape roll	roll	100.00
7019	Dash fastener / Chemical fastener	each	14.00
7020	All drive screws (for gypsum board)	100 Nos	58.00
7021	Primer (for gypsum board)	litre	85.00
7022	Chlorpyrifos 20% E.C. / Lindane 20% E.C.	litre	150.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	7800.00
7025	Self tapping pan head nickel coated mild steel screws of size 13 x 3.2 mm	1000 Nos	525.00
7026	Fibre joint tape 50 mm wide (90 metre) roll	each roll	165.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	105.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	410.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	250.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	255
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	275.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	460.00
7033	Nickel plated M.S. pipe 25 mm dia	metre	76.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	72.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	7.00
7036	Nickel plated M.S. - Brackets for curtain rod 25 mm	each	8.00
7040	Oxidised mild steel screws 35 mm	100 Nos	48.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	42.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	54.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	1300.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1375.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	450.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	560.00
7048	Rawl plug 50 mm (designation 10 nos)	each	25.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	14.00
7050	PU Primer	sqm	60.00
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	400.00
7052	GI wire netting 3/4" x 24 G	sqm	26.00
7053	400 G polythene sheet	sqm	14.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	480.00

Code No.	Description	Unit	Rate ₹
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	100.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	40.00
7060	Hydraulic door closer tubular type Aluminium section body	each	560.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	35.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	30.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	25.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	500.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	400.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	600.00
7072	Wall mounted water closet of size 780 x 370x690 mm	each	6000.00
7073	Adjustable Vitreous China Cistern with fittings of flushing capacity 3 litre/ 6litre 9adjustibla to 4 litre/8litre)	each	1900.00
7074	White Vetrious China Waterless Urinal of size 600x330x315 mm	each	9650.00
7075	Cistern with fittings for Waterless Urinal	each	2290.00
7076	Battery based infrared sensor operated white Vitreous Urinal of aprox.size 610x390x370 mm	each	4500.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	520.00
7087	S.C.I. Tee 150 mm	each	570.00
7090	Expanded polystyrene type N- Normal 50 mm thick	sqm	125.00
7091	Expanded polystyrene type - SE 50 mm thick	sqm	150.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	2480.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mmbowl depth 225 mm	each	3000.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	2800.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	2500.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	1800.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	1200.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	1050.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1830.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	860.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1050.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	390.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	430.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	290.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	340.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	670.00
7116	Hard board 6 mm thick	sqm	115.00
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	25.00
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	33.00
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	35.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	35.00
7121	Bottle Trap	each	620.00
7122	CP Brass Single lever telephonic wall mixer of approved make	each	4500.00

Code No.	Description	Unit	Rate ₹
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	550.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	700.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1150.00
7128	S.W. intercepting trap 100 mm dia	each	185.00
7129	S.W. intercepting trap 150 mm dia	each	240.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	675.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	575.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	575.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	670.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame- M.D.-10	each	575.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	880.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1170.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive as per IS:848	sqm	1620.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminate type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive as per IS:848	sqm	1720.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminate type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1910.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 ka/ sam glass panes	sqm	1620.00
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1620.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1430.00
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	700.00
7178	Chemical ASTM C-type I	kg	105.00
7181	C.I. pile shoe	kg	48.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kg	43.00
7183	Bentonite of 35 kg per pile	tonne	2960.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	57.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	27.00
7188	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia	metre	70.00
7189	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia	metre	130.00

Code No.	Description	Unit	Rate ₹
7190	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	8.00
7191	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	11.00
7192	uPVC coupler for UPVC drainage pipes 75 mm	each	18.00
7193	uPVC coupler for UPVC drainage pipes 110 mm	each	39.00
7194	uPVC pushfit coupler (single) 75 mm thick	each	18.00
7195	uPVC pushfit coupler (single) 110 mm thick	each	32.00
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	46.00
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	81.00
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	59.00
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	92.00
7208	UPVC bend 87.5° 75 mm bend	each	35.00
7209	UPVC bend 87.5° 110 mm bend	each	59.00
7212	UPVC plain shoe 75 mm bend	each	27.00
7213	UPVC plain shoe 110 mm bend	each	47.00
7214	UPVC pipe clip 75 mm bend	each	15.00
7215	UPVC pipe clip 110 mm bend	each	14.00
7231	Resin Bonded Glass wool 16 kg/m ³ : 50 mm thick	sqm	100.00
7232	Resin Bonded Glass wool 24 kg/m ³ : 50 mm thick	sqm	143.00
7233	Fibre glass tissue reinforcement Type II Grade i	sqm	82.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	225.00
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	335.00
7238	High Albedo paint	kg	230.00
7239	Epoxy paint	litre	230.00
7240	Fire retardant paint	litre	260.00
7241	Melamine polish	litre	280.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1620.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone- 18 mm thick	sqm	1620.00
7246	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile	per test	40000.00
7247	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	per test	45000.00
7248	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne	per test	50000.00
7249	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity	per test	15000.00
7250	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	23000.00
7251	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	29500.00

Code No.	Description	Unit	Rate ₹
7252	Lateral load testing of single pile in accordance with IS : 2911 part - IV for determining safe allowable lateral load on pile up to 50 tonne capacity	per test	15000.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part - IV for determining safe allowable lateral load on pile above 50 tonne capacity	per test	23600.00
7254	Hardening compound	litre	38.00
7255	Road marking paint (spirit based)	litre	115.00
7256	Superior quality road marking paint (water based)	litre	135.00
7257	C.P. Brass bibcock 15 mm	each	290.00
7258	C.P. Brass long nose bibcock 15 mm	each	430.00
7259	C.P. Brass long body bibcock 15 mm	each	385.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	430.00
7261	C.P. Brass angle valve 15 mm	each	375.00
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	8600.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	115.00
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	107.00
7269	25 mm thick particle board	sqm	460.00
7270	30 mm thick prelaminated flush door shutter	sqm	810.00
7271	Second class teak wood lipping 25 mm wide x 12 mm thick	metre	29.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	900.00
7273	Resin Bonded Rockwool 48 kg/m3	sqm	120.00
7274	Glass wool 50 mm thick	sqm	238.00
7280	Waste plastic additive	tonne	40000.00
7281	Chemical ASTM C-type II	kg	165.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1600.00
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	1800.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	1800.00
7306	Aluminium T or L sections	kg	190.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	330.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	39570.00
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	10.00
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	13.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	14.00
7318	Plasticizer / super plasticizer	kg	36.00
7319	Wall form panel 1250x500 mm	each	860.00
7320	Tie bolt 12 mm dia 100 mm length	each	38.00
7321	Tie bolt 12 mm dia 150 mm length	each	48.00
7322	Tie bolt 20 mm dia 150 mm length	each	57.00
7323	Tie bolt 20 mm dia 225 mm length	each	67.00
7324	Spring coil 12 mm	each	15.00
7325	Plastic cone 12 mm dia	each	17.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	240.00
7327	100 mm channel shoulder 2.5 m long	each	910.00
7328	Double clip (bridge clip)	each	76.00
7329	Single clip	each	59.00
7330	M.S. tube 40 mm dia	metre	215.00
7331	Wall form panel 1250x450 mm	each	860.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	255.00

Code No.	Description	Unit	Rate ₹
7333	Column clamp 450x1070 mm	each	965.00
7334	Prop 2 m (2-3.5 m)	each	635.00
7335	Binding wire	kg	46.00
7336	Lock Bar (E 250) - 10 thick MS Plate	kg	76.00
7338	Gun metal cramp	kg	315.00
7339	Stainless steel cramp	kg	290.00
7340	Stainless steel pin	kg	182.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1480.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	955.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	355.00
7345	Prop 4 m	each	910.00
7346	Double coupler	each	46.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	27.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	10.00
7349	12 mm M.S. 'U' beading	metre	14.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	110.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	575.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	470.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	510.00
7363	15 mm C.P. brass tap with elbow operation lever	each	430.00
7364	White glazed fire clay draining board 600x450x25 mm	each	525.00
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	240.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	57.00
7368	GFRG Panel of 124 mm thick	sqm	847.46
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	71.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	445.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	765.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1050.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	1430.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS:2556	each	865.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	620.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	235.00
7382	Bitumen emulsion rapid setting (R.S.) conforming to IS : 8887	tonne	19000.00
7383	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastener	each	7.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	550.00
7386	12 mm thick particle board ceiling tile	sqm	110.00
7387	Spigot for standard jointing	kg	43.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	11.00
7389	Anodising 15 microns on aluminium sections	kg	38.00
7390	EPDM Gasket for uPVC window/door	metre	19.00
7391	Anodising 25 microns on aluminium sections	kg	48.00
7392	Powder coating 50 microns on aluminium sections	kg	61.00
7393	Polyester powder coating 50 microns on aluminium sections	kg	67.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1500.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	20.00
7396	Double action hydraulic floor spring with brass cover plate	each	1620.00
7397	Base Jack	each	145.00

Code No.	Description	Unit	Rate ₹
7398	Challies	each	765.00
7399	Cup locks	each	48.00
7400	15 mm PTMT bib cock	each	71.00
7401	15 mm PTMT bib cock with flange (fancy)	each	105.00
7402	15 mm PTMT bib cock long body with flange	each	116.00
7403	15 mm dia PTMT stop cock (male thread)	each	71.00
7405	20 mm dia PTMT stop cock	each	97.00
7406	PTMT pillar cock	each	125.00
7407	PTMT push cock 15 mm dia	each	62.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	57.00
7409	PTMT grating 100 mm dia	each	20.00
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	138.00
7411	125 mm grating with waste hole	each	30.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	118.00
7415	Double acting air valve 50 mm	each	3715.00
7416	Double acting air valve 80 mm	each	4525.00
7417	Double acting air valve 100 mm	each	5910.00
7418	Water meter (including testing charges) 80 mm	each	2030.00
7419	Water meter (including testing charges) 100 mm	each	3143.00
7420	Water meter (including testing charges) 150 mm	each	4765.00
7421	Water meter (including testing charges) 200 mm	each	5145.00
7422	Dirt box strainer 80 mm	each	2680.00
7423	Dirt box strainer 100 mm	each	4370.00
7424	Dirt box strainer 150 mm	each	5540.00
7425	Dirt box strainer 200 mm	each	7860.00
7426	Cat's eye	each	100.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	200.00
7428	Water stops Dumb bell with central bulb	metre	160.00
7429	Kickers	metre	185.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	11.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	11.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	27.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	500.00
7442	Wheel 75 mm dia. 40 mm wide	each	62.00
7443	Aluminium single cleat of size 30x32x3 mm	each	14.00
7444	Aluminium grip strip of size 50x12x2 mm	each	11.00
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	800.00
7449	Aluminium U beading	kg	210.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	305.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	575.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	690.00
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	24.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	500.00
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	540.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	650.00

Code No.	Description	Unit	Rate ₹
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	900.00
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	575.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)		40.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)		52.00
7491	PTMT - Waste Coupling 31/32 mm	each	34.00
7492	PTMT - Waste Coupling 38/40 mm	each	48.00
7493	PTMT - Bottle Trap 31/32 mm	each	210.00
7494	PTMT - Bottle Trap 38/40 mm	each	220.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	100.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	135.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	290.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	480.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	870.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	100.00
7501	PTMT Swiveling shower 15 mm	each	70.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	105.00
7504	PTMT - Towel Ring 215x200x37 mm	each	130.00
7505	PTMT - Towel Rail (450 mm long)	each	135.00
7506	PTMT - Towel Rail (600 mm long)	each	165.00
7507	PTMT Shelf 450x124x36 mm	each	200.00
7508	PTMT - Urinal Spreader 15 mm	each	76.00
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	84.00
7512	PTMT handle 125x34x24 mm	each	24.00
7513	PTMT handle 150x34x24 mm	each	24.00
7514	PTMT butt hinges 75x60x10 mm	each	33.00
7515	PTMT butt hinges 100x75x10 mm	each	43.00
7516	PTMT Tower bolt 152x42x18 mm	each	48.00
7517	PTMT Tower bolt 202x42x18 mm	each	67.00
7518	PTMT door catcher 72x42 mm	each	24.00
7552	Coir veneered board 4 mm thick	sqm	290.00
7553	Coir veneered board 6 mm thick	sqm	385.00
7555	Coir veneered board 12 mm thick	sqm	670.00
7556	Coir veneered board 18 mm thick	sqm	1000.00
7621	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm dia (3000 mm length pipe)	metre	700.00
7622	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe)	metre	570.00
7623	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 100 mm dia	each	230.00
7624	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia	each	160.00
7625	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia	each	510.00
7626	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia	each	275.00
7627	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 100x100x100 mm dia	each	400.00

Code No.	Description	Unit	Rate ₹
7628	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 75x75x75 mm dia	each	215.00
7629	Hubless centrifugally cast (spun) iron double unequal plain junction as per IS 15905 - 100x100x75x75 mm dia	each	400.00
7630	Hubless centrifugally cast (spun) iron single unequal plain junction as per IS 15905 - 100x100x75 mm dia	each	375.00
7631	Hubless centrifugally cast (spun) iron double equal plain invert branch as per IS 15905 - 100x100x100x100 mm dia	each	625.00
7632	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 100x100x100 mm dia	each	390.00
7633	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 75x75x75 mm dia	each	260.00
7634	Hubless centrifugally cast (spun) iron single unequal plain invert branch 45 degree as per IS 15905 - 100x100x75 mm dia	each	430.00
7635	Hubless centrifugally cast (spun) iron 65 mm offset with 100 mm dia pipe as per IS 15905	each	360.00
7636	Hubless centrifugally cast (spun) iron 65 mm offset with 75 mm dia pipe as per IS 15905	each	295.00
7637	Hubless centrifugally cast (spun) iron 130 mm offset with 100 mmdia pipe as per IS 15905	each	440.00
7638	Hubless centrifugally cast (spun) iron 130 mm offset with 75 mm dia pipe as per IS 15905	each	310.00
7639	Hubless centrifugally cast (spun) iron bend with access door - 100 mm dia as per IS 15905	each	365.00
7640	Hubless centrifugally cast (spun) iron bend with access door - 75 mm dia as per IS 15905	each	290.00
7641	Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - 100 mm dia as per IS 15905	each	270.00
7642	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 100 mm outlet as per IS 15905	each	540.00
7643	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 mm outlet as per IS 15905	each	385.00
7644	SS 304 grade shielded coupling with EPDM rubber gasket for 100 mm dia Hubless centrifugally cast (spun) iron	each	275.00
7645	SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm dia Hubless centrifugally cast (spun) iron	each	250.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	765.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 150 mm dia	metre	1150.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 200 mm dia	metre	1575.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2200.00
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300 mm dia	metre	2750.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3350.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400 mm dia	metre	4300.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450 mm dia	metre	5000.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6270.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7560.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	10500.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11350.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	11450.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia	metre	13900.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	15550.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	29.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	36.00
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	63.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	74.00

Code No.	Description	Unit	Rate ₹
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	110.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	126.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	230.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	270.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	290.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	365.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	550.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	660.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	725.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	960.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1145.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	12400.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	17200.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13050.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	18750.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	1100.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	1650.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	2075.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	2950.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	3790.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	4780.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	6150.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	6453.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	9180.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	12150.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	14370.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	857.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1067.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1286.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2190.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	2857.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	3857.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4619.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6095.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7381.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	8571.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	11995.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5190.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	6200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	8571.00

Code No.	Description	Unit	Rate ₹
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9048.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1310.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2048.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3238.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	3905.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	4990.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6286.00
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8143.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10381.00
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	12914.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	17905.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	800.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1140.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1400.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	1800.00
7726	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 300 mm dia	metre	2250.00
7727	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 350 mm dia	metre	2650.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	3175.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	3852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	4350.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	5600.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	7300.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	9100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	11800.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	12300.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	5400.00
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	4300.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5400.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	29995.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	30536.00
7742	Bitumen emulsion medium setting (M.S.) conforming to IS : 8887	tonne	27909.00
7743	M.S. pipe 150 mm dia casing pipe	metre	1126.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1400.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	508.62
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	788.12
7747	M.S. cap 150 mm dia	each	150.00
7748	M.S. cap 200 mm dia	each	200.00
7749	M.S bail plug 150 mm dia	each	200.00
7750	M.S bail plug 200 mm dia	each	220.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	550.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	840.00
7753	Stone Boulder 50 mm to 200 mm	cum	850.00
7754	Gravel 5 mm to 10 mm	cum	850.00
7755	Gravel 1.5 mm to 2 mm	cum	850.00
7756	Gravel 3 mm to 6 mm	cum	850.00
7757	M.S. pipe 100 mm dia casing pipe	metre	800.00

Code No.	Description	Unit	Rate ₹
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	442.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	480.00
7760	M.S. cap 100 mm dia	each	135.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	875.00
7763	Water supply tanker of 5000 litre capacity	each	900.00
7764	M.S. socket 100 mm dia	each	125.00
7765	M.S. socket 150 mm dia	each	205.00
7766	M.S. socket 200 mm dia	each	265.00
7767	Stone cleaning chemical approved by ASI	litre	295.00
7768	Water repellent chemical approved by ASI	litre	1200.00
7769	Stone surface strengthening chemical approved by ASI	litre	900.00
7770	Turpentine oil	litre	55.00
7771	Liquid Ammonia 5%	litre	160.00
7772	Pea Gravel	cum	950.00
7773	Coloured inter locking C.C. paver Block (60 mm thick, M-35)	sqm	450.00
7774	Stone size 10x10x7.50cm	each	10.00
7775	Sodium pentachlorophenate	kg	550.00
7776	Concrete paver block of grade M-30 made of C&D waste (60mm thickness)		317.22
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	212.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	209.10
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	260.00
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	340.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	400.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	4500.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1500.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	2000.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	450.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	500.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1100.00
7857	P.T.M.T. Grating square slit 150 mm	each	66.75
7858	P.T.M.T. Urinal cock 15 mm dia	each	106.50
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	154.50
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	133.50
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	46.50
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	57.00
7864	P.T.M.T. extension nipple 15 mm dia	each	30.00
7865	P.T.M.T. extension nipple 20 mm dia	each	54.00
7866	P.T.M.T. extension nipple 25 mm dia	each	78.00
7893	Tactile tile	sqm	1000.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	1000.00
7896	Vitrified tile	sqm	500.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	4000.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4700.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	5200.00

Code No.	Description	Unit	Rate ₹
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	5000.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	4900.00
7911	Chemical Rust Remover	litre	210.00
7912	Hire charges of Drill machine upto 30 mm dia	day	160.00
7913	Epoxy	kg	585.00
7914	SBR Polymer	kg	190.00
7915	Woven PVC cloth	sqm	25.00
7916	Hire charges of sand blasting equipment	day	420.00
7917	Hire charges of compressure	day	645.00
7918	25mm thick cement concrete shotcrete(guniting) with compressor	sqm	105.00
7919	50mm thick cement concrete shotcrete(guniting) with compressor	sqm	160.00
7920	75mm thick cement concrete shotcrete(guniting) with compressor	sqm	266.00
7921	Adhesive chemical	ml	2.00
7922	Bit of drilling machine for Hole upto 30mm dia	each	500.00
7923	GI injection nipple 12mm dia, 75mm long	each	42.00
7924	Blowing compressed air for cleaning holes upto 30mm dia	each	10.00
7925	L shaped 100mm long, 10mm dia mild steel shear key	kg	67.00
7926	Welding charges of shear key to existing reinforcement	each	2.00
7927	Acrylic Polymer chemical for cracks	kg	31.00
7928	Hire charges of Plant and machinery, it can inject - 350kg/day	day	100.00
7929	Shear loops (6mm dia GI wire rope) (For vertical joints) 6 nos on each side	each	192.00
7930	dowel tubes (Corrugated GI pipes 50 to 80mm dia) (For horizontal joints)	metre	120.00
7931	Hooks for lifting (Alloy steel) having 2.5 tonne capacity	each	250.00
7996	Factory made EPS light weight composite sandwitched wall/roof panel (50mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	735.25
7997	Factory made EPS light weight composite sandwitched wall/roof panel (60mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	845.00
7998	Factory made EPS light weight composite sandwitched wall/roof panel (75mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1047.46
7999	Factory made EPS light weight composite sandwitched wall/roof panel (90mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1268.00

Code No.	Description	Unit	Rate ₹
8000	Factory made EPS light weight composite sandwitched wall/roof panel (100mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1512.37
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1085.93
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	1248.82
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	1547.45
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	1547.45
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	155.80
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	632.00
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	752.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	125.79
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	251.58
8012	Adhesive solvent cement	kg	140.00
8013	Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh,with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row by welding.	sqm	1650.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	298.74
8015	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3	sqm	18.00
8016	High Density expanded poly ethylene (EPE) Foam 1mm thick	sqm	8.50
8017	Fire rated door frame made with 1.6 mm thick G.I sheet (120 minutes fire rating)	metre	1000.00
8018	Fire rated door shutter made with 1.6 mm thick G.I sheet (120 minutes fire rating) including hinges (without glass panels)	sqm	5000.00
8019	GI sheet 0.8 mm thick confirming to IS 277:1992	kg	75.00
8020	Factory made EPS Core wall panel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, connected by G.I. wire of 3mm dia at alternate row by welding	sqm	600.00
8021	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm	sqm	3470.00
8022	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	112.00
8023	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	255.00
8024	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	sqm	300.00
8025	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm	sqm	3385.00
8026	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	250.00
8027	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	255.00
8028	Bamboo wood shutter of doors	10 cudm	1700.00
8029	Bamboo wood panelling (10mm thick)	10 cudm	1680.00
8030	Superior class Bamboo wood door frame 65 mm thick,	10 cudm	1675.00
8031	Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/ WRB panel/Kicker Panels/door closing panels (for form work)	sqm	8500.00
8032	Aluminium sheets Grade 5052, 4 mm thick for Internal Corner/ Column Corners/ (for form work)	sqm	11500.00
8033	Aluminium sheets Grade 5052, 4 mm thick for Mid Soldier/End soldier (for form work)	sqm	32000.00

Code No.	Description	Unit	Rate ₹
Accessories for aluminium form work			
8034	External corner 2050 mm	each	1400.00
8035	External corner 825 mm	each	590.00
8036	soldier tie 370mm	each	290.00
8037	Adjustable prop-2.0 x2.0 m	each	1080.00
8038	Pin-50	each	15.00
8039	Pin-127	each	55.00
8040	wedge	each	14.00
8041	wall tie-150 (355 mm)	each	45.00
8042	Polythene Sleeve 90 x 150mm	each	3.00
8043	Polythene Roll - 150mm Long.	each	6.00
8044	Vertical Soldier -1100mm	each	365.00
8045	Wall Attached Bracket 600x1000mm	each	985.00
8046	Alignment Pipe - 3.00 Mtr.	each	995.00
8047	Alignment Bracket	each	475.00
8048	Tie Rod for Bracket - 500mm	each	115.00
8049	Anchor Wing Nut Ø100 mm	each	64.00
8050	Debit Pin - 250mm	each	60.00
8051	PVC Pipe Ø20mm - 150mm long	each	5.00
8052	PVC Cone	each	5.00
8053	Bolt+Nut - 16 x 80 mm	each	30.00
8054	Flat Washer Ø16, 3mm thik	each	5.00
8055	Bolt+Nut - 16 x 30 mm	each	18.00
8056	Door spacer 45x45x5-1135mm Long	each	360.00
8057	Door spacer 45x45x5 - 985mm long	each	315.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	123.00
8101	SS ball bearing of size 100 x89x3mm	each	450.00
8116	Zinc alloy (white powder coated) 3D Hinges for uPVC door	each	451.00
8117	Zinc alloy (white powder coated) handles with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key for uPVC casement door	each set	2296.00
8118	Zinc alloy (white powder coated) handles along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding window	each set	1394.00
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	1150.00
8121	uPVC extruded (small series) casement window frame size 47x50mm	metre	258.30
8122	uPVC extruded (small series) casement window sash/window mullion size 47x68 mm	metre	282.90
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash	metre	98.40
8126	uPVC extruded (big series) casement window frame size 67x60 mm	metre	319.80
8127	uPVC extruded (big series) casement door frame size 67x64 mm	metre	360.80
8128	uPVC extruded (big series) casement window sash/window mullion/door mullion size 67x80 mm	metre	426.40
8129	uPVC extruded (big series) casement door sash size 67x110 mm	metre	516.60
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window/door sash	metre	123.00
8131	uPVC extruded glazing bead of appropriate dimension for small series sliding window sash	metre	60.00
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window/ door sash	metre	85.00
8133	uPVC extruded (small series) 2 track sliding window frame size 52x44 mm	metre	285.00

Code No.	Description	Unit	Rate ₹
8134	uPVC extruded (big series) 2 track sliding window/door frame size 67x 50mm	metre	385.00
8135	uPVC extruded (small series) 3 track sliding window frame size 92x 44 mm	metre	380.00
8136	uPVC extruded (big series) 3 track sliding window/door frame size 116x45mm	metre	530.00
8137	uPVC extruded (small series) 2 track sliding window sash/3 track sliding window sash size 32x60mm	metre	265.00
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm	metre	325.00
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm	metre	325.00
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash	metre	80.00
8141	uPVC extruded interlock of appropriate dimension for big series sliding window/ door sash	metre	90.00
8142	uPVC extruded inline adaptor of appropriate dimension for big series sliding window/door sash	metre	90.00
8143	uPVC extruded 2 track sliding door sash/ 3 track sliding door sash (big series) size 46x82mm	metre	350.00
8144	Bamboo Mat corrugated sheets 3.5 to 4mm thick conforming to IS 15476:2004	sqm	2648.00
8145	Bamboo Mat Ridge cap 3.5 to 4mm thick conforming to IS 15476:2004	metre	2570.00
8146	3mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1508.00
8147	4mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1738.00
8148	6mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2098.00
8149	9mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2688.00
8150	12mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	3115.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	80.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	100.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	126.67
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	190.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	205.00
8206	Bitumen primer for bitumen membrane	litre	80.00
8207	Geotextile 120 grams per sqm membrane	sqm	45.00
8210	Stainless steel screws 50 mm	100 Nos	270.00
8211	Stainless steel screws 40 mm	100 Nos	215.00
8212	Stainless steel screws 30 mm	100 Nos	190.00
8214	Stainless steel screws 20 mm	100 Nos	125.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	265.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	235.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	160.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	135.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	350.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	255.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	205.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	210.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	160.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	95.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	80.00
8226	Concealed zinc coated hinges 19-20 mm thick with mounting plate	10 Nos	420.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	62.00

Code No.	Description	Unit	Rate ₹
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	78.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	110.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	157.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	235.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	330.00
8306	PPR Union 20 mm	each	48.00
8307	PPR Union 25 mm	each	97.00
8308	PPR Union 32 mm	each	137.20
8309	PPR Union 40 mm	each	184.80
8310	PPR Union 50 mm	each	352.80
8311	PPR Union 63 mm	each	483.60
8312	PPR Union 75 mm	each	933.00
8500	Water for jetting / blowback	1000 litre	1500.00
8501	Polymer modified cementation coating	kg	140.00
8502	Fibre glass cloth	sqm	25.00
8504	Multi surface paint	litre	255.00
8505	Acrylic exterior paint	litre	170.00
8506	Premium Acrylic exterior paint	litre	180.00
8507	Textured exterior paint	litre	240.00
8508	Primer for cement paint	litre	79.00
8509	Special Primer (C.W.)	litre	140.00
8510	Metal Primer (U.G.)	litre	90.00
8511	Fibre reinforced elastomeric liquid water proofing membrane	litre	198.69
8512	Cementitious water proofing coating with elastic polymers	kg	189.13
8513	Acrylic modified resin based texture	kg	36.00
8514	40 mm long S.S screws with plastic rawl plugs	each	40.00
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	31.00
8516	ZMB 60/equivalent	kg	105.00
8517	ZMB thinner	litre	205.00
8518	Zycoprime / equivalent	litre	210.00
8519	Zycosil / equivalent	litre	1800.00
8520	Elastobar / equivalent	kg	300.00
8552	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick	sqm	830.00
8553	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick with bio-block conforming to ISO 5 (class 100) specifications.	sqm	920.00
8554	Mineral fiber beveled tegular edged ceiling tiles 595 x595mm,20 mm thick.	sqm	1040.00
8555	G.I main runner 15 x32 mm of 3000 mm length, 0.33 mm thick	each	185.00
8556	G.I cross-T 15 x32 mm of 1200 mm length, 0.33 mm thick	each	78.00
8557	G.I cross-T 15 x32 mm of 600 mm length, 0.33 mm thick	each	35.00
8558	G.I hanger rod 6mm dia fully threaded upto 1000 mm length	each	26.00
8559	Stainless steel U Channel of size (50x25x2mm)	metre	160.00
8560	Non staining water resistant clear silicon	metre	65.00
8561	Extruded polystyrene rigid insulation board 50 mm thick	sqm	525.00
8562	Expanded Polystyrene insulation board 120 mm thick confirming to IS 4671-1984, Fire retardant property self-extinguishing type as per EN 13501-1	sqm	800.00
8563	15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm.	sqm	720.00
8564	15 mm thick, light weight,fully perforated square/butt edge integral densified,false ceiling tiles of size 595x595 mm.	sqm	900.00
8565	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	26.00
8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	235.00

Code No.	Description	Unit	Rate ₹
8567	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long)	each	115.00
8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	95.00
8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	47.00
8570	GI Main T ceiling section 30x25x0.3 mm (3 metre long)	each	187.00
8571	GI Perimeter wall angle 25x25x0.4 mm (3 metre long)	each	157.00
8572	GI Intermediate cross T section 25x25x0.3 mm (1.2 metre long)	each	72.00
8573	GI Intermediate cross T section 25x25x0.3 mm (0.6 metre long)	each	34.00
8576	Crates made of Mesh type 10x12 (D=100 mm) Zinc coated. (Mesh wire diameter 3.00 mm).	sqm	190.00
8577	Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	220.00
8578	Crates made of Mesh type 10x12 (D=100 mm) Zn+10% Al alloy + PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	290.00
8579	Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/slitting etc.	kg	130.00
8580	Wastage of cold form light gauge steel	kg	17.00
8581	12 mm thick micro tegular edged semi perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	510.00
8582	12 mm thick micro tegular edged fully perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	600.00
8583	10 mm thick square edge fully perforated GRG(Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	750.00
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600 mm long)	each	35.00
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000 mm length	each	26.00
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick on edges	sqm	685.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	120.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00metre long)	each	65.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	40.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	20.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	4.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	1.00
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	32.00
8597	Gi Metal Tile Clip in Plain Beveled edge global white colour tiles ofsize 600x600 mm and 0.5 mm thick	sqm	677.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	782.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	612.00
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	715.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	880.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	375.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	190.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	95.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	115.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	8.00

Code No.	Description	Unit	Rate ₹
8610	Wire Coupling Clip	each	9.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	115.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	80.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	35.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	17.00
8615	Hanger rod 4 mm thick	each	8.00
8616	Adjustment clip 85x30x0.8 mm	each	5.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	4.00
8618	Dash fastener 6 mm dia 50 mm long	each	8.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	15.00
8620	Vitrified floor tile 50x50 cm conforming to IS 15622:2006 group (B1a)	sqm	490.00
8621	Vitrified floor tile 60x60 cm conforming to IS 15622:2006 group (B1a)	sqm	659.72
8622	Vitrified floor tile 80x80 cm conforming to IS 15622:2006 group (B1a)	sqm	850.00
8623	Vitrified floor tile 100x100 cm conforming to IS 15622:2006 group (B1a)	sqm	1390.00
8624	"Border tiles 200x75mm size	each	16.00
8626	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia	metre	43.27
8627	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 25 mm Outer dia	metre	66.80
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	107.47
8629	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 40 mm Outer dia	metre	161.07
8630	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 50 mm Outer dia	metre	252.22
8631	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 63 mm Outer dia	metre	281.73
8632	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 75 mm Outer dia	metre	418.18
8633	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 90 mm Outer dia	metre	597.63
8634	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	metre	885.83
8635	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 160 mm Outer dia	metre	2557.30
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	48.55
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	77.80
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	113.60
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	163.65
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	228.70
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	375.25
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	793.30
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	1031.05
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	1466.75
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	3145.15
8646	Silicon sealant	cartridge	100.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	32.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2150.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	172.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	222.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	195.00

Code No.	Description	Unit	Rate ₹
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	525.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	900.00
8654	Masking tape	metre	1.95
8655	Autoclaved aerated cement (AAC) blocks	cum	2600.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	480.00
8657	Bonding plaster for Gypsum panel	kg	25.00
8658	Precast C&D waste concrete block	1000 Nos	25150.00
8659	Water proof ply 12 mm thick	sqm	517.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	44.00
8661	Aluminium casement window fastener (powder coated)	each	47.00
8662	Aluminium casement window fastener (polyester powder coated)	each	46.00
8663	Aluminium round shape handle (anodised AC 15) outer dia 100 mm	each	53.00
8664	Aluminium round shape handle (powder coated) outer dia 100 mm	each	56.00
8665	Aluminium round shape handle (polyester powder coated) outer dia 100 mm	each	60.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	38.00
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	430.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	485.00
8669	Mangalore ridge tiles 20 mm thick	each	8.00
8670	Mangalore tiles 20 mm thick	each	8.00
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	350.00
8672	Precoated galvanised steel plain ridges 0.50 mm TCT and 500-600mm wide	metre	210.00
8673	Precoated galvanised steel flashings/aprons 0.50 mm TCT and upto 600mm wide	metre	210.00
8674	Precoated galvanised steel gutter 600mm overall girth	metre	420.00
8675	Precoated galvanised steel north light curves	metre	230.00
8676	Precoated galvanised steel barge board (upto 300mm)	metre	215.00
8677	Precoated galvanised steel crimp curve	sqm	230.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	42.00
8682	Epoxy Grout	kg	371.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	425.00
8684	White sand stone gang saw cut 30 mm thick	sqm	560.00
8685	Delineator	each	300.00
8686	Precast C.C. Kerb stone M - 25	cum	5500.00
8687	Thermoplastic paint	kg	65.00
8688	Glass beads	kg	70.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	400.00
8690	High intensity retro - reflective sheet as per IRC 67-2001	sqm	1300.00
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	600.00
8692	RBT reinforced barbed wire	metre	6.50
8693	Turn buckle and strengthening bolt	each set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	135.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	280.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	300.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	360.00
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	100.00
8699	8 mm thick tapered edge calcium silicate board	sqm	265.00
8700	10 mm thick calcium silicate board	sqm	420.00

Code No.	Description	Unit	Rate ₹
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	610.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	59.00
8703	Telescopic drawer channels 300 mm long	set	230.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	9.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	160.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	1700.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	467.00
8708	30 mm thick factory made glass fiber reinforced plastic panel doorshutter i/c carriage	sqm	2326.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2100.00
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	315.00
8711	20 mm factory made solid PVC panel door shutter i/c carriage	sqm	2050.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2000.00
8713	Fiber glass reinforced plastic chajja	sqm	3000.00
8714	Magnetic catcher triple strip vertical type	each	24.00
8715	Magnetic catcher double strip horizontal type	each	18.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	375.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	195.00
8719	2nd class teak wood moulded beading or Taj beading/ornamental beading of size 18X5 mm	metre	28.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	35.00
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	22.00
8722	Nylon sleeves & wooden screws (40 mm)	each	2.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	68.00
8724	12 mm thick marine plywood conforming to IS: 710	sqm	695.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	850.00
8726	1.5 mm thick decorative laminated sheet	sqm	365.00
8727	1.0 mm thick decorative laminated sheet	sqm	280.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2675.00
8731	High polymer modified quickset tile adhesive	kg	9.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	400.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	255.00
8735	35 mm thick factory made solid panel PVC door shutter of singlepiece extruded profile non decorative finished (Matt finished)	sqm	2150.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2600.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	400.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	1050.00

Code No.	Description	Unit	Rate ₹
8739	Fire rated door shutter made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	4500.00
8740	Fire seal Putty	kg	295.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	21500.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m ²) with ceramic tape of suitable thickness and fire resistant primer coating	metre	295.00
8743	Matrix Mineral Board	metre	68.00
8744	Panic Bar / latch (Double point)	each	5200.00
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	355.00
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2400.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	400.00
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	2600.00
8749	Zinc alloy (white powder coated) touch lock with hook for wire mesh shutter	sqm	120.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window/door	each	130.00
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window/door	each	105.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	56.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door/window	each	95.00
8754	Zinc alloy (white powder coated) crescent lock for uPVC sliding door/window	each	115.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	205.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	230.00
8757	Stainless steel friction hinges (SS-304 grade) size 300 x 19 x 1.9 mm for uPVC window	each	245.00
8758	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x 1.9 mm for uPVC window	each	345.00
8759	Stainless steel friction hinges (SS-304 grade) size 400 x 19 x 1.9 mm for uPVC window	each	365.00
8760	Glass panes of required thickness having 60 minutes of fire resistance both integrity and radiation control (EW 60) and minimum 20 minutes of insulation (EI 20)	sqm	22500.00
8761	Scaffolding net made of high density polyethylene UV stabilized having density 100gm/ sqm.	sqm	21.50
8772	Aluminium Track on bottom rail for uPVC window	metre	30.00
8773	Wool pile/ weather pile strip for uPVC sliding window	metre	20.00
8774	Aluminium Grill as per IS 1868	kg	260.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	60.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	15.00
8777	GI Fastener 100x8 mm	each	15.00
8778	Toughened glass 12 mm thickness	sqm	1747.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	130.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	243.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	297.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	423.00

Code No.	Description	Unit	Rate ₹
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	441.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	833.00
8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	470.00
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	63.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	89.00
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	131.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	158.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	180.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	103.00
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	141.00
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	145.00
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	184.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	187.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	190.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	359.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	362.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	362.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	387.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	410.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	410.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	410.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	410.00
8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	410.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	47.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	63.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	89.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	131.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	158.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	170.00
8812	Elbow 90° for 15.88 mm outer dia SS pipe	each	58.00
8813	Elbow 90° for 22.22 mm outer dia SS pipe	each	63.00
8814	Elbow 90° for 28.58 mm outer dia SS pipe	each	96.00
8815	Elbow 90° for 34.00 mm outer dia SS pipe	each	109.00
8816	Elbow 90° for 42.70 mm outer dia SS pipe	each	116.00
8817	Elbow 90° for 48.60 mm outer dia SS pipe	each	150.00
8818	Reducing Elbow 90° for 22.22 mm X 15.88 mm outer dia SS pipe	each	148.00
8819	Reducing Elbow 90° for 28.58 mm X 15.88 mm outer dia SS pipe	each	191.00
8820	Reducing Elbow 90° for 28.58 mm X 22.22 mm outer dia SS pipe	each	221.00
8821	Reducing Elbow 90° for 34.00 mm X 22.22 mm outer dia SS pipe	each	287.00
8822	Reducing Elbow 90° for 34.00 mm X 28.58 mm outer dia SS pipe	each	345.00
8823	Reducing Elbow 90° for 42.70 mm X 34.00 mm outer dia SS pipe	each	179.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	159.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	231.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	273.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	437.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	683.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	887.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS	each	179.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	273.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	273.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	437.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	437.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	437.00

Code No.	Description	Unit	Rate ₹
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	683.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	683.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	683.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	683.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	887.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	887.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	887.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	887.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	887.00
8845	Stainless steel Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	179.00
8846	Stainless steel Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	200.00
8847	Stainless steel Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	205.00
8848	Stainless steel Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	273.00
8849	Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	273.00
8850	Stainless steel Male thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	273.00
8851	Stainless steel Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	437.00
8852	Stainless steel Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	437.00
8853	Stainless steel Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	437.00
8854	Stainless steel Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	437.00
8855	Stainless steel Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	683.00
8856	Stainless steel Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	683.00
8857	Stainless steel Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	683.00
8858	Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	683.00
8859	Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	683.00
8860	Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	887.00
8861	Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	887.00
8862	Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	887.00
8863	Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	887.00
8864	Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	887.00
8865	Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	887.00
8866	Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	179.00
8867	Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	200.00
8868	Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	200.00
8869	Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	273.00
8870	Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	273.00

Code No.	Description	Unit	Rate ₹
8871	Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	273.00
8872	Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	437.00
8873	Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	437.00
8874	Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	437.00
8875	Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	437.00
8876	Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	683.00
8877	Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	683.00
8878	Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	683.00
8879	Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	683.00
8880	Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	683.00
8881	Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	887.00
8882	Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	887.00
8883	Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	887.00
8884	Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	887.00
8885	Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	887.00
8886	Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	887.00
8887	Stainless steel Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00
8888	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00
8890	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00
8892	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00
8893	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00
8894	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00
8895	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00
8896	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	681.00
8897	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	838.00
8898	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	965.00
8899	Stainless steel Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	193.00
8900	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	227.00
8901	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	248.00

Code No.	Description	Unit	Rate ₹
8902	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	313.00
8903	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	320.00
8904	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	461.00
8905	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	726.00
8908	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	840.00
8909	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1138.00
8910	Stainless steel Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	234.00
8911	Stainless steel Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	276.00
8912	Stainless steel Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	295.00
8913	Stainless steel Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	424.00
8914	Stainless steel Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	629.00
8915	Stainless steel Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	875.00
8916	Stainless steel Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1176.00
8917	SS Female Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	150.00
8918	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	191.00
8919	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	191.00
8920	Stainless steel Female Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	205.00
8921	Stainless steel Female Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	287.00
8922	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	478.00
8923	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X 40 mm nominal dia threaded	each	478.00
8924	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 40 mm nominal dia threaded	each	683.00
8925	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 50 mm nominal dia threaded	each	683.00
8926	Stainless steel Male Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	191.00
8927	Stainless steel Male Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	205.00
8928	Stainless steel Male Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	205.00
8929	Stainless steel Male Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	205.00
8930	Stainless steel Male Threaded Elbow 90o for 34.00 mm outer dia X 25 mm nominal dia threaded	each	287.00
8931	Stainless steel Male Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	287.00
8932	Stainless steel Male Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	478.00

Code No.	Description	Unit	Rate ₹
8933	Stainless steel Male Threaded Elbow 900 for 42.70 mm outer dia X 40 mm nominal dia threaded	each	478.00
8934	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	683.00
8935	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	683.00
8936	Stainless steel Cap for 15.88 mm outer dia pipe	each	45.00
8937	Stainless steel Cap for 22.22 mm outer dia pipe	each	64.00
8938	Stainless steel Cap for 28.58 mm outer dia pipe	each	84.00
8939	Stainless steel Cap for 34.00 mm outer dia pipe	each	163.00
8940	Stainless steel Cap for 42.70 mm outer dia pipe	each	236.00
8941	Stainless steel Cap for 48.60 mm outer dia pipe	each	299.00
8942	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	214.00
8943	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	271.00
8944	Stainless steel Pipe Bridge for 28.58 mm outer dia pipe	each	407.00
8945	4 Point facade glass bracket without flat head bolts	Nos	3318.00
8946	2 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1659.00
8947	1 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1300.00
8948	Flate head bolt for brackets of spider glazing	Nos	651.00
8949	400 mm long fin plate without fastners	pair	5931.00
8953	Micro Silica	kg	32.00
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	4.50
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	72.00
8956	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction	sqm	100.00
8957	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction	sqm	115.00
8958	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction	sqm	185.00
8959	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction	sqm	275.00
8960	Geosynthetic Drainage with two filtering nonwoven geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure,tensile strength of 18 kN/m , with mass per unit area of 740 gsm.	sqm	530.00
8961	Geosynthetic Drainage Composite having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlayed ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 g/m2 and tensile strength of 8.0 kN/m having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m , with mass per unit area of 830 gsm,	sqm	630.00
8962	Synthetic Geogrid having Ultimate tensile strength- 100 kN/m	sqm	220.00
8963	Synthetic Geogrid Ultimate tensile strength- 150 kN/m	sqm	230.00
8964	Synthetic Geogrid Ultimate tensile strength- 200 kN/m	sqm	320.00
8965	Synthetic Geogrid Ultimate tensile strength- 250 kN/m	sqm	355.00
8966	Synthetic Geogrid Ultimate tensile strength- 300kN/m	sqm	365.00
8967	Synthetic Geogrid Ultimate tensile strength- 350kN/m	sqm	370.00
8968	Synthetic Geogrid Ultimate tensile strength- 400kN/m	sqm	475.00
8969	Synthetic Geogrid Ultimate tensile strength- 500kN/m	sqm	535.00
8970	Synthetic Geogrid Ultimate tensile strength- 600kN/m	sqm	550.00
8971	Synthetic Geogrid Ultimate tensile strength- 700kN/m	sqm	685.00

Code No.	Description	Unit	Rate ₹
8972	Synthetic Geogrid Ultimate tensile strength- 800kN/m	sqm	750.00
8973	Synthetic Geogrid Ultimate tensile strength- 900kN/m	sqm	900.00
8974	Synthetic Geogrid Ultimate tensile strength- 1000kN/m	sqm	1025.00
8975	Synthetic Geogrid Ultimate tensile strength- 1100kN/m	sqm	1000.00
8976	Synthetic Geogrid Ultimate tensile strength- 1200kN/m	sqm	1088.00
8977	Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	600.00
8978	Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	785.00
9001	C.P. Brass Centre Hole Basin Mixer With Cast Spout	each	1600.00
9977	Carriage	L.S.	2.00
9988	Carriage and sundries	L.S.	2.00
9999	Sundries	L.S.	2.00

BASIC RATES 0.4 CARRIAGE CODES

(Carriage for 5.0 km lead by Mechanical Transport including loading, Unloading and stacking).

Code No.	Description	Unit	Rate ₹
2200	Carriage of Steam coal	tonne	121.29
2201	Carriage of Bricks	1000 Nos	283.01
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	106.13
2203	Carriage of Coarse sand	cum	106.13
2204	Carriage of Timber	cum	121.29
2205	Carriage of Steel	tonne	94.34
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	115.36
2207	Carriage of Brick tiles	1000 Nos	169.81
2208	Carriage of Lime	cum	106.13
2209	Carriage of Cement	tonne	94.34
2211	Carriage of Tar / Bitumen	tonne	106.13
2215	Carriage of Soling stone & masonry stone	cum	124.86
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	94.34
2224	Carriage of S.W. pipes 100 mm dia	100 metre	141.51
2225	Carriage of S.W. pipes 150 mm dia	100 metre	283.01
2226	Carriage of S.W. pipes 200 mm dia	100 metre	471.69
2228	Carriage of S.W. pipes 250 mm dia	100 metre	808.61
2229	Carriage of S.W. pipes 300 mm dia	100 metre	1010.76
2241	Carriage of Good earth	cum	132.66
2242	Carriage of Dump manure by mechanical transport upto 5 km lead	cum	115.36
2260	Carriage of Brick aggregate	cum	115.36
2261	Carriage of Fine sand	cum	106.13
2262	Carriage of Flyash	cum	106.13
2264	Carriage of Rubbish	cum	106.13
2265	Carriage of Moorum	cum	106.13
2266	Carriage of Surkhi	cum	106.13
2267	Carriage of Stone dust	cum	106.13
2268	Carriage of Marble dust and/or marble chips	cum	106.13
2271	Carriage of G.I. pipes below 100 mm dia	tonne	94.34
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	94.34
2273	Carriage of A.C.sheet and accessories	tonne	94.34
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	231.98
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	386.63
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	893.73
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	1104.66
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	2577.54
2302	Carriage of G.I. sheet and accessories	tonne	94.34
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3866.30
2308	Carriage of Plaster of paris	tonne	94.34
2309	Carriage of Cast Iron fittings	tonne	94.34
2311	Carriage of bajri	cum	106.13

Code No.	Description	Unit	Rate ₹
2314	Carriage of Barbed wire	tonne	94.34
2317	Carriage of Sludge	cum	115.36
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	231.98
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	309.87
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	386.63
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	628.92
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	893.73
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	1104.66
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	1546.52
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	2108.89
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	2577.54
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	2577.54
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	3866.30
2330	Carriage of C.I. pipes 500 mm dia	100 metre	2577.54
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	5799.46
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	7732.61
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	7732.61
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	7732.61
2335	Carriage of sand	cum	106.13
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7732.61
2341	Carriage of Pig lead	tonne	94.34
2342	Carriage of Solvent / Diesel.	quintal	10.61
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	231.98
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	386.63
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	628.92
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	893.73
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	1104.66
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	1546.52
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	2108.89
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	2577.54
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	2577.54
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	3866.30
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	3866.30
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	3866.30
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	5799.46
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	7732.61

CARRIAGE OF MATERIALS

Data Sheet No. 1 for Analysis of Rate

By Mechanocal Transport including loading, unloading and stacking:

Code	Name	Unit	Rate
080	Hire charges of truck without POL	Day	1500.00
0017	Beldar	Day	320.83
0018	Coolie	Day	320.83
1235	High Speeded Diesel	Litre	73.50
5001	Mobilr Oil	Litre	315.00

CARRIAGE OF MATERIAL BY MECHANICAL TRANSPORT WITHOUT P.O.L.AND LOADING, UN-LOADING.

Lead in Km.	Average speed km / hr (s)	(n) No of trips 8 / (2L/S=1.25)	No. of KM done (2nl+6)	Litres of Diesel consumed	Cost of Diesel @ 73.50 per litre.	Litres of M oil consumed.	Cost of M oil @ 315.00 consumed.	Cost of 6 beldars @ @ 320.83 per day.	Hire charges @ 1500.00 per/day	Total cost 6+8+9+10	Cost per trip	Increase in cost per Km over previous km.	Average cost per km after 5
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 Km	16.00	7.11	20.22	4.04	296.94	0.144	45.36	1924.98	1500.00	3767.28	529.86		
2 Km	17.00	6.48	31.92	6.38	468.93	0.228	71.82	1924.98	1500	3965.73	612.00	82.14	
3 Km	17.50	5.96	41.76	8.35	613.73	0.298	93.87	1924.98	1500	4132.58	693.39	81.39	
4 Km	18.00	5.54	50.32	10.06	739.41	0.359	113.09	1924.98	1500	4277.48	772.11	78.72	
5 Km	18.50	5.19	57.9	11.58	851.13	0.414	130.41	1924.98	1500	4406.52	849.04	76.93	
6 Km	19.00	4.90	64.8	12.96	952.56	0.463	145.85	1924.98	1500	4523.39	923.14	74.10	
7 Km	19.50	4.66	71.24	14.25	1047.38	0.509	160.34	1924.98	1500	4632.70	994.14	71.00	
8 Km	20.00	4.44	77.04	15.41	1132.64	0.550	173.25	1924.98	1500	4730.87	1065.51	71.37	70.03
9 Km	20.50	4.26	82.68	16.54	1215.69	0.591	186.17	1924.98	1500	4826.84	1133.06	67.55	
10 Km	21.00	4.10	88	17.60	1293.60	0.629	198.14	1924.98	1500	4916.72	1199.20	66.14	
11 Km	21.50	3.95	92.9	18.58	1365.63	0.664	209.16	1924.98	1500	4999.77	1265.76	66.56	
12 Km	22.00	3.83	97.92	19.58	1439.13	0.699	220.19	1924.98	1500	5084.30	1327.49	61.73	
13 Km	22.50	3.71	102.46	20.49	1506.02	0.732	230.58	1924.98	1500	5161.58	1391.26	63.77	
14 Km	23.00	3.61	107.08	21.42	1574.37	0.765	240.98	1924.98	1500	5240.33	1451.61	60.35	
15 Km	23.50	3.51	111.3	22.26	1636.11	0.795	250.43	1924.98	1500	5311.52	1513.25	61.64	
16 Km	24.00	3.43	115.76	23.15	1701.53	0.827	260.51	1924.98	1500	5387.02	1570.56	57.30	59.81
17 Km	24.50	3.35	119.9	23.98	1762.53	0.856	269.64	1924.98	1500	5457.15	1629.00	58.44	
18 Km	25.00	3.28	124.08	24.82	1824.27	0.686	216.09	1924.98	1500	5465.34	1666.26	37.26	
19 Km	25.50	3.21	127.98	25.60	1881.60	0.914	287.91	1924.98	1500	5594.49	1742.83	76.57	
20 Km	26.00	3.15	132	26.40	1940.40	0.940	296.1	1924.98	1500	5661.48	1797.30	54.46	

Lead in Km.	Average speed km / hr (s)	(n) No of trips 8 / (2L/S=1.25)	No. of KM done (2n+6)	Litres of Diesel consumed	Cost of Diesel @ 73.50 per litre.	Litres of M oil consumed.	Cost of M oil @ 315.00 consumed.	Cost of 6 beldars @ @ 320.83 per day.	Hire charges @ 1500.00 per/day	Total cost 6+8+9+10	Cost per trip	Increase in cost per Km over previous km.	Average cost per km after 5 km.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21 Km	26.50	3.09	135.78	27.16	1996.26	0.970	305.55	1924.98	1500	5726.79	1853.33	56.03	51.15
22 Km	27.00	3.04	139.76	27.95	2054.33	0.998	314.37	1924.98	1500	5793.68	1905.81	52.48	
23 Km	27.50	2.99	143.54	28.71	2110.19	1.025	322.88	1924.98	1500	5858.05	1959.21	53.40	
24 Km	28.00	2.95	147.60	29.52	2169.72	1.054	332.01	1924.98	1500	5926.71	2009.05	49.84	
25 Km	28.50	2.90	151.00	30.20	2219.70	1.079	339.89	1924.98	1500	5984.57	2063.64	54.59	
26 Km	29.00	2.86	154.72	30.94	2274.09	1.105	348.08	1924.98	1500	6047.15	2114.39	50.74	
27 Km	29.50	2.83	158.82	31.76	2334.36	1.134	357.21	1924.98	1500	6116.55	2161.33	46.94	
28 Km	30.00	2.79	162.24	32.45	2385.08	1.159	365.09	1924.98	1500	6175.15	2213.31	51.99	
29 Km	30.50	2.76	166.08	33.22	2441.67	1.186	373.59	1924.98	1500	6240.24	2260.96	47.64	
30 Km	31.00	2.73	169.80	33.96	2496.06	1.213	382.1	1924.98	1500	6303.14	2308.84	47.89	

Notes :

1 Number of trips in working day of 8 hours $N = 8 / \{(2L/S) + 1\}$. Where L=Lead in Km., S=Speed in Km.per hour, 1 hour is allowed for loading / unloading.

2 Consumption of diesel taken at 5 Km. per litre.

3 Consumption of mobile oil taken at 140 Km. per litre.

4 In column 4 of 'km done' an allowance of 6.0 km has been made for movement of truck from parking place to duty & back.

5 (i) Cost of diesel @ 73.50 per litre

(ii) Cost of mobile oil @ 315.00 per litre

(iii) Hire charges of truck @ 1500 for a day of 8 hours

CARRIAGE OF MATERIAL BY MECHANICAL TRANSPORT

1.1 By Mechanical Transport including loading, unloading and stacking.

S.No.	Material.	Capacity per trip	Net Qty. payable after deduction of voids	Unit	Cost per trip	1 km,	2 Km.	3 km.	4 Km.	5Km.	Beyond 5 km upto 10 km per Km.	Beyond 10 km upto 20 km per km	Beyond 20 km per additional 1 km.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.1.1	Lime,Moorum, Building rubbish.	8 Cum	8.00	1 Cum	529.86	76.17	87.97	99.67	110.99	122.05	10.07	8.60	7.35
1.1.2	Earth work	8 Cum	6.40	1 Cum	529.86	95.21	109.97	124.59	138.74	152.56	12.58	10.75	9.19
1.1.3	Manure or sludge.	8 Cum	7.36	1 Cum	529.86	82.79	95.62	108.34	120.64	132.66	10.94	9.35	7.99
1.1.4	Excavated Rocks.	8 Cum	4.00	1 Cum	529.86	152.33	175.95	199.35	221.98	244.10	20.13	17.20	14.71
1.1.5	Sand, stone aggregate below 40 mm	8 Cum	8.00	1 Cum	529.86	76.17	87.97	99.67	110.99	122.05	10.07	8.60	7.35
1.1.6	Stone aggregate 40 mm and above.	8 Cum	7.36	1 Cum	529.86	82.79	95.62	108.34	120.64	132.66	10.94	9.35	7.99
1.1.7	Soling /Building stones.	8 Cum	6.80	1 Cum	529.86	89.61	103.50	117.26	130.58	143.59	11.84	10.11	8.65
1.1.8	Bricks.	3000 Nos.	3000.00	1000 Nos.	529.86	203.11	234.60	265.80	295.97	325.47	26.85	22.93	19.61
1.1.9	Bricks tiles.	5000 Nos.	5000.00	1000 Nos.	529.86	121.87	140.76	159.48	177.58	195.28	16.11	13.76	11.77
1.1.10	Cement,G.I.,C.I.,A.C.,C.C. pipe and other heavy material.	9Tonne.	9.00	1 Tonne.	529.86	67.70	78.20	88.60	98.66	108.49	8.95	7.64	6.54
1.1.11	Steel,C.G.I.& Asbestos sheets.	9Tonne.	9.00	1 Tonne.	529.86	67.70	78.20	88.60	98.66	108.49	8.95	7.64	6.54
1.1.12	Timber	7 Cum	7.00	1 Cum	529.86	87.05	100.54	113.91	126.85	139.49	11.51	9.83	8.40
1.1.13	Tar Bitumen.	8 Tonne	8.00	1 Cum	529.86	76.17	87.97	99.67	110.99	122.05	10.07	8.60	7.35
1.1.14	Solvent Diesel	80 Qtls	80.00	1 Qtl.	529.86	7.62	8.80	9.97	11.10	12.20	1.01	0.86	0.74
1.1.15	Steam Coal.	7 Tonne	7.00	1 Cum	529.86	87.05	100.54	113.91	126.85	139.49	11.51	9.83	8.40
1.1.16	S.W.pipes.												

S.No.	Material.	Capacity per trip	Net Qty. payable after deduction of voids	Unit	Cost per trip	1 km,	2 Km.	3 km.	4 Km.	5Km.	Beyond 5 km upto 10 km per Km.	Beyond 10 km upto 20 km per km	Beyond 20 km per additional 1 km.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.1.16.1	S.W.pipes 100 mm dia.	600 Mtrs.	600.00	100 Mtrs.	529.86	101.56	117.30	132.90	147.99	162.73	13.42	11.46	9.80
1.1.16.2	S.W.pipes 150 mm dia.	300 Mtrs.	300.00	100 Mtrs.	529.86	203.11	234.60	265.80	295.97	325.47	26.85	22.93	19.61
1.1.16.3	S.W.pipes 200 mm dia.	180 Mtrs.	180.00	100 Mtrs.	529.86	338.52	391.00	443.00	493.29	542.44	44.74	38.21	32.68
1.1.16.5	S.W.pipes 250 mm dia.	105 Mtrs.	105.00	100 Mtrs.	529.86	580.32	670.28	759.42	845.64	929.90	76.70	65.51	56.03
1.1.16.6	S.W.pipes 300 mm dia.	84 Mtrs.	84.00	100 Mtrs.	529.86	725.40	837.85	949.28	1057.05	1162.38	95.88	81.88	70.03
1.1.16.7	S.W.pipes 350 mm dia.	60 Mtrs.	60.00	100 Mtrs.	529.86	1015.56	1172.99	1328.99	1479.87	1627.33	134.23	114.63	98.05
1.1.16.8	S.W.pipes 400 mm dia.	42 Mtrs.	42.00	100 Mtrs.	529.86	1450.80	1675.70	1898.55	2114.11	2324.75	191.75	163.76	140.07
1.1.16.9	S.W.pipes 450 mm dia.	33 Mtrs.	33.00	100 Mtrs.	529.86	1846.47	2132.71	2416.34	2690.68	2958.78	244.05	208.43	178.27
1.1.16.10	S.W.pipes 500 mm dia.	30 Mtrs.	30.00	100 Mtrs.	529.86	2031.12	2345.98	2657.98	2959.75	3254.66	268.46	229.27	196.09
1.1.16.11	S.W.pipes 600 mm dia.	24 Mtrs.	24.00	100 Mtrs.	529.86	2538.90	2932.48	3322.47	3699.69	4068.32	335.57	286.59	245.12
1.1.17	R.C.C.,A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes & unreinforced pipes.												
1.1.17.1	100 mm dia.	366.00 Mtr	366.00	100 Mtrs.	529.86	166.48	192.29	217.87	242.60	266.78	22.00	18.79	16.07
1.1.17.2	125 mm dia	274.00 Mtr	274.00	100 Mtrs.	529.86	222.39	256.86	291.02	324.06	356.35	29.39	25.10	21.47
1.1.17.3	150 mm dia	219.60 Mtr	219.60	100 Mtrs.	529.86	277.47	320.49	363.11	404.34	444.63	36.67	31.32	26.79
1.1.17.4	200 mm dia	135.00 Mtr	135.00	100 Mtrs.	529.86	451.36	521.33	590.66	657.72	723.26	59.66	50.95	43.58
1.1.17.5	250 mm dia	95.00 Mtr	95.00	100 Mtrs.	529.86	641.41	740.84	839.36	934.66	1027.79	84.78	72.40	61.92
1.1.17.6	300 mm dia	76.86 Mtr	76.86	100 Mtrs.	529.86	792.79	915.68	1037.46	1155.25	1270.36	104.78	89.49	76.54
1.1.17.7	350 mm dia	54.90 Mtr	54.90	100 Mtrs.	529.86	1109.90	1281.96	1452.45	1617.35	1778.50	146.70	125.28	107.15
1.1.17.8	400 mm dia	40.26 Mtr	40.26	100 Mtrs.	529.86	1513.50	1748.12	1980.61	2205.48	2425.23	200.04	170.84	146.12
1.1.17.9	450 mm & 500 mm dia	32.94 Mtr	32.94	100 Mtrs.	529.86	1849.83	2136.60	2420.74	2695.58	2964.17	244.50	208.81	178.59

S.No.	Material.	Capacity per trip	Net Qty. payable after deduction of voids	Unit	Cost per trip	1 km,	2 Km.	3 km.	4 Km.	5Km.	Beyond 5 km upto 10 km per Km.	Beyond 10 km upto 20 km per km	Beyond 20 km per additional 1 km.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.1.17.10	600, 700, 750 & 800 mm dia.	21.96 Mtr	21.96	100 Mtrs.	529.86	2774.75	3204.89	3631.11	4043.37	4446.25	366.74	313.21	267.89
1.1.17.11	900 mm dia.	14.64 Mtr	14.64	100 Mtrs.	529.86	4162.12	4807.34	5446.67	6065.06	6669.38	550.11	469.82	401.83
1.1.17.12	1000, 1100 & 1200 mm dia.	10.98 Mtr	10.98	100 Mtrs.	529.86	5549.50	6409.79	7262.23	8086.74	8892.50	733.49	626.42	535.77

- 1.1.18 Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge. Note - item to be applicable in urban areas having directions for restricted hours for movement/ plying of load carrying motor vehicle of 3.5 cum or more.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 3.00 trips of 8 cum				
	LABOUR				
080	Hire charges of Diesel Truck - 9 tonne	day	1.00	1500.00	1500.00
0017	Beldar	day	6.00	320.83	1924.98
1235	Diesel oil	litre	12.88	73.50	946.68
5001	Mobil oil (64km/140=0.46 liter)	litre	0.46	315.00	144.90
	TOTAL				4516.56
	Add 15 % Contractor's profit and				677.48
	Cost for 3.00 trips of capacity 8 cum				5194.04
	Cost per trip of capacity per cum				216.42
	Say Rs.		216.40	Per cum	

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate
0017	Beldar	Day	320.83
0018	Coolie	Day	320.83

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0018 Coolie 7.67 Nos. @ 320.83 2460.766 (X)

Lime, moorum, earth, building rubbish etc.	35 cum
Sand, ballast and boulders	28 cum
Bricks	15000 nos
Brick tiles, roofing tiles(flat or round)	24000 nos
Steam coal	30 tonne

NOTE 1.67 extra coolie(Female coolie) will be required for every additional : lead of 50 metre

0018 Coolie 1.67 Nos @ 320.83 535.79 (Y)

Lead in Metres	Cost per 8 hours day	Increase in cost for every additional 50
	(X)	(Y)
50 metres	2460.7661	535.79

Code No.	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day	Cost per unit	
							cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1st 50 m upto 0.50 km.
1	2	3	4	5	6	7	8	9
1.2.1	Lime, Moorum, Building rubbish.	35 cum	35 cum	1 cum	0.15	2829.88	80.85	17.60
1.2.2	Earth work	35 cum	28 cum	1 cum	0.15	2829.88	101.07	22.01
1.2.3	Manure or sludge.	35 cum	32.2 cum	1 cum	0.15	2829.88	87.88	19.14
1.2.4	Excavated Rocks.	35 cum	17.5 cum	1 cum	0.15	2829.88	161.71	35.21
1.2.5	Sand, Stone aggregate below 40 mm nominal size.	28 cum	28 cum	1 cum	0.15	2829.88	101.07	22.01
1.2.6	Stone aggregate above 40 mm.	28 cum	25.9 cum	1 cum	0.15	2829.88	109.26	23.79
1.2.7	Soling stone and filling crate. Building stones.	28 cum	23.8 cum	1 cum	0.15	2829.88	118.90	25.89

Code No.	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day	Cost per unit	
							cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1st 50 m upto 0.50 km.
1	2	3	4	5	6	7	8	9
1.2.8	Bricks.	15000 Nos	15000 Nos	1000 Nos.	0.15	2829.88	188.66	41.08
1.2.9	Bricks tiles.	24000 Nos	24000 Nos	1000 Nos.	0.15	2829.88	117.91	25.67
1.2.10	Steam Coal.	30 tonne	30 tonne	1 tonne	0.15	2829.88	94.33	20.54

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate
0017	Beldar	Day	320.83
0018	Coolie	Day	320.83

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0017 Beldar: 9.20 Nos @ 320.83 2951.64 (X)

Quantity of material as per column 3 of table below will be carried in 50 metres lead including loading and unloading.

NOTE:- 1.35 extra Beldar will be required for every additional lead of 50 metre

0017 Beldars 1.35 Nos @ 320.83 433.12 (Y)

Code No.	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day	Cost per unit	
							cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1 st 50 m upto 0.50 km
1	2	3	4	5	6	7	8	9
1.2.11	Stone blocks, G.I., C.I., Stainless steel pipes below 100 mm dia and other heavy material.	46 tonne	46 tonne	1 tonne	0.15	3394.38	73.7909	10.83
1.2.12	Cement,	57.99 tonne	57.99 tonne	1 tonne	0.15	3394.38	58.53	8.59
1.2.13	Steel.	27 tonne	27 tonne	1 tonne	0.15	3394.38	125.72	18.45
1.2.14	Timber	42 cum	42 cum	1 cum	0.15	3394.38	80.82	11.86
1.2.15	Tar Bitumen.	46 tonne	46 tonne	1 tonne	0.15	3394.38	73.79	10.83
1.2.16	S.W. pipes							
1.2.16.1	100 mm dia.	2298 m	2298 m	100 m	0.15	3394.38	147.71	21.67
1.2.16.2	150 mm dia.	1398 m	1398 m	100 m	0.15	3394.38	242.80	35.63
1.2.16.3	200 mm dia.	999 m	999 m	100 m	0.15	3394.38	339.78	49.86
1.2.16.5	250 mm dia.	600 m	600 m	100 m	0.15	3394.38	565.73	83.01
1.2.16.6	300 mm dia.	420 m	420 m	100 m	0.15	3394.38	808.19	118.59
1.2.16.7	350 mm dia.	300 m	300 m	100 m	0.15	3394.38	1131.46	166.03

Code No.	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day	Cost per unit	
							cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1 st 50 m upto 100 m
1	2	3	4	5	6	7	8	9
1.2.16.8	400 mm dia.	240 m	240 m	100 m	0.15	3394.38	1414.33	207.54
1.2.16.9	450 mm dia.	198 m	198 m	100 m	0.15	3394.38	1714.33	251.56
1.2.16.10	500 mm dia.	162 m	162 m	100 m	0.15	3394.38	2095.30	307.46
1.2.16.11	600 mm dia.	132 m	132 m	100 m	0.15	3394.38	2571.50	377.34
1.2.17	R.C.C., A.C, Hume & steel pipes 100 mm dia.							
1.2.17.1	100 mm dia.	1702 m	1702 m	100 m	0.15	3394.38	199.43	29.26
1.2.17.2	125 mm dia.	1391 m	1391 m	100 m	0.15	3394.38	244.02	35.81
1.2.17.3	150 mm dia.	1208 m	1208 m	100 m	0.15	3394.38	280.99	41.23
1.2.17.4	200 mm dia.	805 m	805 m	100 m	0.15	3394.38	421.66	61.87
1.2.17.5	250 mm dia.	458 m	458 m	100 m	0.15	3394.38	741.13	108.75
1.2.17.6	300 mm dia.	366 m	366 m	100 m	0.15	3394.38	927.43	136.09
1.2.17.7	350 mm dia.	256 m	256 m	100 m	0.15	3394.38	1325.93	194.57
1.2.17.8	400 mm dia.	220 m	220 m	100 m	0.15	3394.38	1542.90	226.40
1.2.17.9	450 / 500 mm dia.	165 m	165 m	100 m	0.15	3394.38	2057.20	301.87
1.2.17.10	600, 700, 750 & 800 mm dia.	150 m	150 m	100 m	0.15	3394.38	2262.92	332.06
1.2.18	Asbestos cement pipes							
1.2.18.1	50 mm dia	10064 m	10064 m	100 m	0.15	3394.38	33.73	4.95
1.2.18.2	80 mm dia.	3660 m	3660 m	100 m	0.15	3394.38	92.74	13.61
1.2.18.3	100 mm dia.	2562 m	2562 m	100 m	0.15	3394.38	132.49	19.44
1.2.18.4	150 mm dia.	1830 m	1830 m	100 m	0.15	3394.38	185.49	27.22

- 1.3** Loading in or unloading cement from the railway wagons at siding and carrying the same from or into godowns adjacent to the siding, including stacking the same properly in rows upto any height as per direction of Engineer-in-charge, sweeping the wagons and screening the swept cement and filling in bags complete.

Code	Description	Unit	Quantity	Rate	Amount
	Details of 23 tonnes of cement				
	LABOUR				
0017	Beldar	day	3.75	320.83	1203.11
9999	Sundries Add for sweeping the wagon, screening the swept cement and filling the same in bags	L.S.	2.62	2.00	5.24
	TOTAL				1208.35
	Add 15 % Contractor's profit and overheads				181.25
	Cost of 23 tonne				1389.61
	Cost of 1 tonne				60.42
	Say				60.40

- 1.4** Loading in or unloading from the railway wagons as per direction of Engineer-incharge :

1.4.1 Steel

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of unloading wagon of 14 tonnes				
	LABOUR				
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				641.66
	Add 15 % Contractor's profit and overheads				96.25
	Cost of 14 tonne				737.91
	Cost of 1 tonne				52.71
	Say				52.70

- 1.4.2** G.I., C.I., R.C.C. or C.C. pipes upto 500 mm dia and similar heavy materials

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of unloading wagon of 14 tonnes				
	LABOUR				
0017	Beldar	day	2.00	320.83	641.66
9999	Sundries	L.S.	3.10	2.00	6.20
	TOTAL				647.86
	Add 15 % Contractor's profit and overheads				97.18
	Cost of 14 tonne				745.04
	Cost of 1 tonne				53.22
	Say				53.20

1.4.3 Heavy materials where each piece or bundle, crate or case weighs more than one tonne and R.C.C., C.I. and concrete pipes above 500 mm dia.

Code	Description	Unit	Quantity	Rate	Amount
	Details of cost of unloading wagon of 14 tonnes				
	LABOUR				
0017	Beldar	day	3.25	320.83	1042.70
9999	Sundries	L.S.	91.15	2.00	182.30
9999	Sundries	L.S.	7.40	2.00	14.80
	TOTAL				1239.80
	Add 15 % Contractor's profit and overheads				185.97
	Cost of 14 tonne				1425.77
	Cost of 1 tonne				101.84
	Say				101.84

SUB HEAD : 2.0

EARTH WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
2.1.1	All kinds of soil				
	Details of cost for 100 Sqm				
	LABOUR				
0017	Beldar	day	6.80	320.83	2181.64
0018	Coolie	day	5.60	320.83	1796.65
	TOTAL				3978.29
	Add 1 % Water charges				39.78
					4018.07
	Add GST (multiplying factor 0.1405)				564.54
	TOTAL				4582.61
	Add 15 % Contractor's profit and overheads				687.39
	Total				5270.01
	Add Cess @ 1% on				52.70
	Cost of 100 sqm				5322.71
	Cost of 1 sqm				53.23
	Say				53.25
2.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m :				
2.2.1	All kinds of soil				
	Details of cost for 10 cum.				
	LABOUR				
0017	Beldar	day	5.90	320.83	1892.90
0018	Coolie	day	3.60	320.83	1154.99
0011	Bhisti	day	0.40	320.83	128.33
0016	Chowkidar	day	0.008	320.83	2.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
003	Hire charges of Diesel Road Roller 8 to 10 tonne	day	0.008	3000.00	24.00
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				3208.24
	Add 1 % Water charges				32.08
	TOTAL				3240.33
	Add on (multiplying factor 0.1405)				455.27
	TOTAL				3695.59
	Add 15 % Contractor's profit and overheads				554.34
	Total				4249.93
	Add Cess @ 1% on				42.50
	Cost of 10 sqm				4292.43
	Cost of 1 cum.				429.24
	Say				429.25
2.3	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 mtr. :				
2.3.1	All kinds of soil				
	Details of cost for 10 cum.				
	LABOUR				
0017	Beldar	day	2.20	320.83	705.83
0018	Coolie	day	3.60	320.83	1154.99
0011	Bhisti	day	0.40	320.83	128.33
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
003	Hire charges of Diesel Road Roller 8 to 10 tonne	day	0.008	3000.00	24.00
0016	Chowkidar	day	0.008	320.83	2.57
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				2021.17
	Add 1 % Water charges				20.21
	TOTAL				2041.38
	Add GST (multiplying factor 0.1405)				286.81
	TOTAL				2328.20
	Add 15 % Contractor's profit and overheads				349.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2677.43
	Add Cess @ 1% on				26.77
	Cost of 10 sqm				2704.20
	Cost of 1 cum.				270.42
	Say				270.40
2.4	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.				
	Details of cost for 10 cum.				
	LABOUR				
0016	Chowkidar	day	0.008	320.83	2.57
003	Hire charges of Diesel Road Roller 8 to 10	day	0.008	3000.00	24.00
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				30.21
	Add 1 % Water charges				0.30
	TOTAL				30.51
	Add GST (multiplying factor 0.1405)				4.29
	TOTAL				34.80
	Add 15 % Contractor's profit and overheads				5.22
	Total				40.01
	Add Cess @ 1% on				0.40
	Cost of 10 sqm				40.41
	Cost of 1 cum.				4.04
	Say				4.05
2.5	Deduct for not watering the excavated earth for banking				
	Details of cost for 10 cum.				
	LABOUR				
0011	Bhisti	day	0.40	320.83	128.33
	TOTAL				128.33
	Add 1 % Water charges				1.28
	TOTAL				129.62
	Add GST (multiplying factor 0.1405)				18.21
	TOTAL				147.83
	Add 15 % Contractor's profit and overheads				22.17
	Total				170.00
	Add Cess @ 1% on				1.70
	Cost of 10 sqm				171.70
	Cost of 1 cum.				17.17
	Say				17.15
2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.6.1	All kinds of soil				
	Details of cost for 10 cum.				
	Average output of Hydraulic Excavator per hour = 30cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.041	7000.00	287.00
018	Hire and running charges of loader.	day	0.041	5000.00	205.00
	LABOUR				
0028	Mate	day	0.32	320.83	102.67
0018	Coolie	day	1.20	320.83	385.00
	TOTAL				979.66
	Add 1 % Water charges				9.80
	TOTAL				989.46
	Add GST (multiplying factor 0.1405)				139.02
	TOTAL				1128.48
	Add 15 % Contractor's profit and overheads				169.27
	Total				1297.75
	Add Cess @ 1% on				12.98
	Cost of 10 sqm				1310.73
	Cost of 1 cum.				131.07
	Say				131.05
2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
2.7.1	Ordinary rock				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.063	7000.00	441.00
017	Hire and running charges of tipper	day	0.063	1700.00	107.10
0032	Rock Excavator	day	0.705	320.83	226.19
0033	Rock Breaker	day	1.590	320.83	510.12
0034	Rock Hole Driller	day	0.355	320.83	113.89
	LABOUR				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.55	320.83	176.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				1756.75
	Add 1 % Water charges				17.57
	TOTAL				1774.32
	Add GST (multiplying factor 0.1405)				249.29
	TOTAL				2023.61
	Add 15 % Contractor's profit and overheads				303.54
	Total				2327.15
	Add Cess @ 1% on				23.27
	Cost of 10 sqm				2350.42
	Cost of 1 cum.				235.04
	Say				235.05
2.7.2	Hard rock (requiring blasting)				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.125	7000.00	875.00
017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0032	Rock Excavator	day	1.060	320.83	340.08
0033	Rock Breaker	day	2.825	320.83	906.34
0034	Rock Hole Driller	day	0.885	320.83	283.93
	LABOUR				
0017	Beldar	day	0.450	320.83	144.37
0018	Coolie	day	0.550	320.83	176.46
325	Blasting powder	kilogram	3.930	40.00	157.20
326	Blasting fuse (fuse wire)	each	4.000	15.00	60.00
9999	Sundries	L.S.	16.120	2.00	32.24
	TOTAL				3188.13
	Add 1 % Water charges				31.88
	TOTAL				3220.01
	Add GST (multiplying factor 0.1405)				452.41
	TOTAL				3672.42
	Add 15 % Contractor's profit and overheads				550.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				4223.29
	Add Cess @ 1% on				42.23
	Cost of 10 sqm				4265.52
	Cost of 1 cum.				426.55
	Say				426.55
2.7.3	Hard rock (blasting prohibited)				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.125	7000.00	875.00
017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0032	Rock Excavator	day	2.470	320.83	792.45
0033	Rock Breaker	day	6.000	320.83	1924.98
0035	Stone Chiseller	day	1.060	392.00	415.52
0013	Blacksmith 2nd class	day	0.175	374.50	65.54
0017	Beldar	day	0.750	320.83	240.62
0018	Coolie	day	1.000	320.83	320.83
9999	Sundries	L.S.	16.120	2.00	32.24
	TOTAL				4879.68
	Add 1 % Water charges				48.80
	TOTAL				4928.48
	Add GST (multiplying factor 0.1405)				692.45
	TOTAL				5620.93
	Add 15 % Contractor's profit and overheads				843.14
	Total				6464.07
	Add Cess @ 1% on				64.64
	Cost of 10 sqm				6528.71
	Cost of 1 cum.				652.87
	Say				652.85
2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.8.1	All kinds of soil.				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.04125	7000.00	288.75
018	Hire and running charges of loader.	day	0.04125	5000.00	206.25
	LABOUR				
0028	Mate	day	0.4000	320.83	128.33
0018	Coolie	day	2.0500	320.83	657.70
	TOTAL				1281.03
	Add 1 % Water charges				12.81
	TOTAL				1293.84
	Add GST (multiplying factor 0.1405)				181.79
	TOTAL				1475.63
	Add 15 % Contractor's profit and overheads				221.34
	Total				1696.97
	Add Cess @ 1% on				16.97
	Cost of 10 sqm				1713.94
	Cost of 1 cum.				171.39
	Say				171.40
2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
2.9.1	Ordinary rock				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.0625	7000.00	437.50
017	Hire and running charges of tipper	day	0.0625	1700.00	106.25
	LABOUR				
0032	Rock Excavator	day	0.885	320.83	283.93
0033	Rock Breaker	day	1.765	320.83	566.26
0034	Rock Hole Driller	day	0.530	320.83	170.04
0017	Beldar	day	0.500	320.83	160.42
0018	Coolie	day	1.300	320.83	417.08
9999	Sundries	L.S.	13.520	2.00	27.04
	TOTAL				2168.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges				21.69
	TOTAL				2190.21
	Add GST (multiplying factor 0.1405)				307.72
	TOTAL				2497.93
	Add 15 % Contractor's profit and overheads				374.69
	Total				2872.62
	Add Cess @ 1% on				28.73
	Cost of 10 sqm				2901.35
	Cost of 1 cum.				290.13
	Say				290.15
2.9.2	Hard rock (requiring blasting)				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.125	7000.00	875.00
017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR				
0032	Rock Excavator	day	1.240	320.83	397.83
0033	Rock Breaker	day	3.000	320.83	962.49
0034	Rock Hole Driller	day	1.060	320.83	340.08
0017	Beldar	day	0.500	320.83	160.42
0018	Coolie	day	1.300	320.83	417.08
325	Blasting powder	kilogram	6.420	40.00	256.80
326	Blasting fuse (fuse wire)	each	7.000	15.00	105.00
9999	Sundries	L.S.	18.850	2.00	37.70
	TOTAL				3764.89
	Add 1 % Water charges				37.65
	TOTAL				3802.54
	Add GST (multiplying factor 0.1405)				534.26
	TOTAL				4336.80
	Add 15 % Contractor's profit and overheads				650.52
	Total				4987.32
	Add Cess @ 1% on				49.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 sqm				5037.19
	Cost of 1 cum.				503.72
	Say				503.70
2.9.3	Hard rock (blasting prohibited)				
	Details of cost for 10 cum.				
	MACHINERY				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.125	7000.00	875.00
017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR				
0032	Rock Excavator	day	2.650	320.83	850.20
0033	Rock Breaker	day	6.175	320.83	1981.13
0035	Stone Chiseller	day	1.060	392.00	415.52
0013	Blacksmith 2nd class	day	0.175	374.50	65.54
0017	Beldar	day	0.750	320.83	240.62
0018	Coolie	day	1.500	320.83	481.25
9999	Sundries	L.S.	17.940	2.00	35.88
	TOTAL				5157.63
	Add 1 % Water charges				51.58
	TOTAL				5209.21
	Add GST (multiplying factor 0.1405)				731.89
	TOTAL				5941.10
	Add 15 % Contractor's profit and overheads				891.16
	Total				6832.26
	Add Cess @ 1% on				68.32
	Cost of 10 sqm				6900.59
	Cost of 1 cum.				690.06
	Say				690.05
2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
2.10.1	All kinds of soil				
2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 180m length of a pipe trench of an average dia. say 40mm.				
	Slope assumed 1 in 200.				
	Earth work and filling-				
	Minimum depth of trench 60cm.				
	Average depth = $(0.6+1.5)/2 = 1.05$				
	Width for this depth 0.45 m				
	$180 \times 0.45 \times 1.05 = 85.05$ cum				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	85.05	171.40	14577.94
2.25	Rate as per Item Number 2.25 of SH: Earth Work	cum	85.05	124.50	10588.95
	TOTAL				25166.89
	Cost of 180m length of pipes trench				25166.89
	Cost for 1m. length of pipe trench				139.82
	Say				139.80

2.10.1.2 Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia

	Details of cost for 110m length of a pipe trench of an average dia. say 200mm Slope assumed 1 in 200.				
	Earth work and filling-				
	Minimum depth of trench = $0.75+0.20 = 0.95$ m				
	Average depth = $(1.50+0.95)/2 = 1.225$ M				
	Width = $0.40 + 0.20 = 0.60$ m				
	$110 \times 0.60 \times 1.225 = 80.85$ cum				
	5% for collars = 4.04 cum				
	Total = 84.89 cum				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	84.89	171.40	14550.51
2.25	Rate as per Item Number 2.25 of SH: Earth Work	cum	84.89	124.50	10569.03
	TOTAL				25119.54
	Cost of 110m length of pipe trench				25119.54
	Cost for 1m length of pipe trench				228.36
	Say				228.35

2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm

	Details of cost for 60m length of a pipe of an average dia. say 450mm.				
	Slope assumed 1 in 200.				
	Earth work and filling-				
	Minimum depth of trench $0.75+0.45 = 1.20$ m				
	Average depth = $(1.50+1.20)/2 = 1.35$				
	Width = $0.40 + 0.45 = 0.85$ m				
	$60 \times 0.85 \times 1.35 = 68.85$ cum				
	5% for collars = 3.44 cum				
	Total = 72.29 cum				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	72.29	171.40	12390.51
2.25	Rate as per Item Number 2.25 of SH: Earth Work	cum	72.29	124.50	9000.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				21390.80
	Cost of 60m length of pipe				21390.80
	Cost for 1m length of pipe				356.51
	Say				356.50
2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).				
	Details of cost for 300m length of pipe of an average dia. say 200mm (rate in percentage) Slope assumed 1 in 200. $100 \times 0.60 \times 1.75 = 105.00$ cum $200 \times 0.60 \times 2.00 = 240.00$ cum. Total = 345.00 cum. Collars 5% = 17.25 cum. Total = 362.25 cum.				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	362.25	171.40	62089.65
2.25	Rate as per Item Number 2.25 of SH: Earth Work $1/2 \times 200 \times 1.60 \times 1 = 160$ cum	cum	362.25	124.50	45100.13
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth Work	cum	160.00	131.05	20968.00
2.25	Rate as per Item Number 2.25 of SH: Earth Work Extra for additional lift $1/2 \times 200 \times 0.60 \times 1.50 = 135.00$ cum Collars 5% = 6.75 cum. Total = 141.75 cum	cum	160.00	124.50	19920.00
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth Work	cum	141.75	51.50	7300.13
	Cost for 300 m. length of pipe				155377.90
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth Work (Cost for 300 m. length of pipe upto 1.5 m depth) Extra cost for 300 metre = $Z = X - Y$ Extra cost for one metre = $Z/300$ Percentage increase over item no 2.10.1.2 = $(Z \times 100)/Y$ Say	metre	-300.00	228.35	-68505.00
					86872.90
					289.58
					126.81
					126.80
2.12	Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)				
	Details of cost for a 100m length of a pipe of an average dia. say 200mm Slope assumed 1 in 200. Earth work and filling- $1 \times 100 \times 0.60 \times 2 = 120$ cum Collars 5% = 6 cum. Total = 126 cum.				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	126.00	171.40	21596.40
2.25	Rate as per item No.2.25 of SH: Earth work Earth work $100 \times 1.60 \times 1.25 = 200$ cum	cum	126.00	124.50	15687.00
2.26.1	Rate as per item no. 2.6.1 of SH: Earth work	cum	200.00	131.05	26210.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Rate as per item No.2.25 of SH: Earth work Extra for additional lift 1x100x0.60x1.50 = 90 cum. 2x0.50x100x0.60x0.50 = 30 cum. Total = 120 cum. Collars 5% = 6 cum. Total = 126 cum	cum	200.00	124.50	24900.00
2.26.1	Rate as per item no. 2.26.1 of SH: Earth work	cum	126.00	51.50	6489.00
	Cost for 100 m. length of pipe				94882.40
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work (Cost for 100 m. length of pipe upto 1.5 m depth) Extra cost for 100 metre = Z = X-Y Extra cost for one metre = Z/100 Percentage increase over item no 2.10.1.2 =(Zx100)/Y Say	metre	-100.00	228.35	-22835.00
					72047.40
2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :				
2.13.1	Ordinary rock :				
2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia				
	Details of cost for 180 m length of a pipe of a average dia. say 40mm. Slope assumed 1:200 Excavation- Quantity same as in item No.2.10.1.1				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth Work	cum	85.05	290.15	24677.67525 A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	85.05	124.50	10588.95091 A
	Extra labour for ramming of rock				
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				35908.29
	Add 1 % Water charges except on (A) i.e. on				641.66
	TOTAL				35914.70
	Add GST (multiplying factor 0.1405)		648.08		91.05
	TOTAL				36005.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads except on (A)	739.13			110.87
	Total				36116.63
	Add Cess @ 1% on	850.00			8.50
	Cost for 180 m. length of pipe				36125.13
	Cost for 1m. length of pipe				200.70
	Say				200.70

2.13.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Details of cost for 80 m length of pipe of an average dia. Say 200mm.
Slope assumed 1:200
Excavation-
Minimum depth of trench.
 $0.75+0.15+0.20 = 1.10\text{m}$
Average depth = $(1.10+1.50)/2 = 1.30\text{m}$
Minimum width of trench = 0.90m
 $80 \times 0.90 \times 1.30 = 93.60 \text{ cum.}$

2.9.1	Rate as per item no. 2.9.1 of SH: Earth Work Refilling, ramming and watering	cum	93.60	290.15	27158.50 A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	93.60	124.50	11653.45 A
	Extra labour for ramming of rock				
0017	Beldar	day	2.20	320.83	705.83
	TOTAL				39517.77
	Add 1 % Water charges i.e. except on (A)	705.83			7.06
	TOTAL				39524.83
	Add GST (multiplying factor 0.1405)	712.88			100.16
	TOTAL				39624.99
	Add 15 % Contractor's profit and overheads except on (A)	813.04			121.96
	Total				39746.95
	Add Cess @ 1% on	935.00			9.35
	Cost for 80 m. length of pipe				39756.30
	Cost for 1m. length of pipe				496.95
	Say				496.95

2.13.1.3 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia

Details of cost for 30 m. length of a pipe of an average dia. say 450mm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Slope assumed 1 in 200. Excavation- Minimum depth of trench. $0.75+0.15+0.45 = 1.35\text{m}$ Average depth = $(1.35+1.50)/2 = 1.425\text{m}$ Minimum width of trench = 0.90m $30 \times 0.90 \times 1.425 = 38.475 \text{ cum.}$ 5% for collar = 1.924cum Total = 40.399cum				
2.9.1	Rate as per item no. 2.9.1 of SH: Earth Work	cum	40.399	290.15	11721.77
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	40.399	124.50	5029.68
0017	Beldar	day	0.940	320.83	301.58
	TOTAL				17053.03
	Add 1 % Water charges i.e. except on (A)	301.58			3.02
	TOTAL				17056.04
	Add GST (multiplying factor 0.1405)	304.60			42.80
	TOTAL				17098.84
	Add 15 % Contractor's profit and overheads except on (A)	347.39			52.11
	Total				17150.95
	Add Cess @ 1% on	399.50			4.00
	Cost for 30 m length of a pipe				17154.94
	Cost for one m length of a pipe				571.83
	Say				571.85
2.13.2 Hard rock (requiring blasting)					
2.13.2.1 Pipes, cables etc. not exceeding 80 mm dia					
	Details of cost for 180 m length of a pipe of a average dia. say 40mm. Slope assumed 1:200 Excavation- Quantity same as in item No.2.10.1.1				
2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work	cum	85.050	503.70	42839.62 A
2.25	Refilling, ramming and watering Rate as per item No.2.25 of SH: Earth Work	cum	85.050	124.50	10588.95 A
	Extra labour for ramming of rock				
0017	Beldar	day	2.500	320.83	802.08
	TOTAL				54230.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges i.e. except on (A)	802.08			8.02
	TOTAL				54238.66
	Add GST (multiplying factor 0.1405)	810.10			113.82
	TOTAL				54352.48
	Add 15 % Contractor's profit and overheads except on (A)	923.91			138.59
	Total				54491.07
	Add Cess @ 1% on	1062.50			10.63
	Cost for 180 m. length of pipe				54501.70
	Cost for 1m. length of pipe				302.79
	Say				302.80

2.13.2.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Details of cost for 80 m length of a pipe of an average dia. say 200mm.
Slope assumed 1:200
Excavation-
Quantity same as in item No.2.13.1.2

2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work Refilling, ramming and watering	cum	93.600	503.70	47146.25 A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	93.600	124.50	11653.45 A
	Extra labour for ramming of rock				
0017	Beldar	day	2.750	320.83	882.28
	TOTAL				59681.98
	Add 1 % Water charges i.e. except on (A)	882.28			8.82
	TOTAL				59690.80
	Add GST (multiplying factor 0.1405)	891.11			125.20
	TOTAL				59816.00
	Add 15 % Contractor's profit and overheads except on (A)	1016.31			152.45
	Total				59968.45
	Add Cess @ 1% on	1168.75			11.69
	Cost for 80 m. length of pipe				59980.13
	Cost for 1m. length of pipe				749.75
	Say				749.75

2.13.2.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia

Details of cost for 30 m length of a pipe of an average dia. Say 450mm.
Slope assumed 1:200

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Excavation- Quantity same as in item No.2.13.1.3					
2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work Refilling, ramming and watering	cum	40.399	503.70	20348.94	A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	40.399	124.50	5029.78	A
	Extra labour for ramming of rock					
0017	Beldar	day	1.170	320.83	375.37	
	TOTAL				25754.10	
	Add 1 % Water charges i.e. except on (A)		375.37		3.75	
	TOTAL				25757.85	
	Add GST (multiplying factor 0.1405)		379.12		53.27	
	TOTAL				25811.12	
	Add 15 % Contractor's profit and overheads except on (A)		432.39		64.86	
	Total				25875.98	
	Add Cess @ 1% on		497.25		4.97	
	Cost for 30 m. length of pipe				25880.95	
	Cost for 1m. length of pipe				862.70	
	Say				862.70	
2.13.3	Hard rock (blasting prohibited)					
2.13.3.1	Pipes, cables etc. not exceeding 80 mm dia					
	Details of cost for 180 m length of a pipe of a average dia. say 40mm.					
	Slope assumed 1:200					
	Excavation- Quantity same as in item No.2.10.1.1					
2.9.3	Rate of item no 2.9.3 of SH: Earth Work Refilling, ramming and watering	cum	85.050	690.05	58688.6425	A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	85.050	124.50	10588.95091	A
	Extra labour for ramming of rock					
0017	Beldar	day	2.500	320.83	802.08	
	TOTAL				70079.67	
	Add 1 % Water charges i.e. except on (A)		802.08		8.02	
	TOTAL				70087.69	
	Add GST (multiplying factor 0.1405)		810.10		113.82	
	TOTAL				70201.51	
	Add 15 % Contractor's profit and overheads		923.91		138.59	
	Total				70340.09	
	Add Cess @ 1% on		1062.50		10.63	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 180 m. length of pipe				70350.72
	Cost for 1m. length of pipe				390.84
	Say				390.85
2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia					
	Details of cost for 80 m length of a pipe of an average dia. say 200mm.				
	Slope assumed 1:200				
	Excavation-				
	Quantity same as in item No.2.13.1.2				
2.9.3	Rate as per item no. 2.9.3 of SH: Earth Work Refilling, ramming and watering	cum	93.600	690.05	64588.56 A
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	93.600	124.50	11653.45 A
	Extra labour for ramming of rock				
0017	Beldar	day	2.750	320.83	882.28
	TOTAL				77124.29
	Add 1 % Water charges i.e. except on (A)	882.28			8.82
	TOTAL				77133.11
	Add GST (multiplying factor 0.1405)	891.11			125.20
	TOTAL				77258.31
	Add 15 % Contractor's profit and overheads except on (A)	1016.31			152.45
	Total				77410.76
	Add Cess @ 1% on	1168.75			11.69
	Cost for 80 m. length of pipe				77422.45
	Cost for 1m. length of pipe				967.78
	Say				967.80
2.13.3.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia					
	Details of cost for 30 m length of a pipe of an average dia. Say 450mm.				
	Slope assumed 1:200				
	Excavation-				
	Quantity same as in item No.2.13.1.3				
2.9.3	Rate as per item no. 2.9.3 of SH: Earth Work Refilling, ramming and watering	cum	40.399	690.05	27877.28
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	40.399	124.50	5029.78
	Extra labour for ramming of rock				
0017	Beldar	day	1.170	320.83	375.37
	TOTAL				33282.43
	Add 1 % Water charges i.e. except on (A)	375.37			3.75
	TOTAL				33286.19
	Add GST (multiplying factor 0.1405)	379.12			53.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				33339.45
	Add 15 % Contractor's profit and overheads except on (A)	432.39			64.86
	Total				33404.31
	Add Cess @ 1% on	497.25			4.97
	Cost for 30 m. length of pipe				33409.28
	Cost for 1m. length of pipe				1113.64
	Say				1113.65
2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)				
	Details of cost for 300m length of a pipe of an average dia. say 200mm. Slope assumed 1 in 200.				
	Excavation- 100x0.90x1.50 = 157.50 cum. 200x0.90x20.00 = 360 cum. Total = 517.50 cum.				
2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work 0.50x200x1.90x1 = 190 cum.	cum	517.50	503.70	260664.34
2.7.2	Rate as per item no. 2.7.2 of SH: Earth Work Refilling, ramming and watering 517.50+190.00 = 707.50 cum.	cum	190.00	426.55	81044.84
2.25	Rate as per item No.2.25 of SH: Earth Work	cum	707.50	124.50	88085.63
	Extra for additional lift 0.5x300x0.9x1.5 = 202.50 cum.				
2.26.2	Rate as per item no. 2.26.2 of SH: Earth Work	cum	202.50	92.30	18690.52
	Extra labour for ramming of rock				
0017	Beldar	day	16.50	320.83	5293.70
	TOTAL				453779.03
	Add 1 % Water charges i.e. except on (A)	5293.70			52.94
	TOTAL				453831.97
	Add GST (multiplying factor 0.1405)	5346.63			751.20
	TOTAL				454583.17
	Add 15 % Contractor's profit and overheads except on (A)	6097.83			914.68
	Total				455497.84
	Add Cess @ 1% on	7012.51			70.13
	Cost for 300m length of pipe				455567.97
2.13.2.2	Rate as per Item No.2.13.2.2 of SH: Earth Work (cost of 300 m length of pipe upto 1.5m depth)	metre	-300.00	749.75	-224925.50
	Extra cost for 300 m = X - Y Extra cost for one m				768.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Percentage increase over item 2.13.2.2 = (Zx100)/Y				102.54	
	Say				102.55	
2.15	Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre)					
	Details of cost for 100m length of a pipe of an average dia. say 200mm. (rate in percentage) Slope assumed 1 in 200. Max depth assumed 3.5m Excavation- 100x0.90x2 = 180 cum.					
2.9.2	Rate as per item no. 2.9.2 of SH: Earth Work 100x1.90x1.25 = 237.5	cum	180.00	504.00	90720.00	A
2.7.2	Rate as per item no. 2.7.2 of SH: Earth Work Extra for additional lift 1x100x0.90x1.50 = 135 2x0.50x100x0.90x0.50 = 45 Total = 180 cum.	cum	237.50	426.55	101305.63	A
2.26.2	Rate as per item no. 2.26.2 of SH: Earth Work Refilling, ramming and watering 180+237.50 = 417.50 cum.	cum	180.00	92.30	16614.00	A
2.25	Rate as per item No.2.25 of SH: Earth Work Extra labour for ramming of rock	cum	417.50	124.50	51978.75	A
0017	Beldar	day	9.25	320.83	2967.68	
	TOTAL = 199,217.75				263586.05	
	Add 1 % Water charges i.e. except on (A)	2967.68			29.68	
	TOTAL				263615.73	
	Add GST (multiplying factor 0.1405)	2997.35			421.13	
	TOTAL				264036.86	
	Add 15 % Contractor's profit and overheads except on (A)	3418.48			512.77	
	Total				264549.63	
	Add Cess @ 1% on	3931.25			39.31	
	Cost for 100m length of pipe				264588.94	
2.13.2.2	Rate as per item No 2.13.2.2 of SH: Earth Work (cost of 100 m length of pipe exceeding 1.5 m and upto 3 m depth)	metre	-100.00	749.75	-74975.17	
	Extra cost for 100 m = X - Y				189613.78	
	Extra cost for 1 m				1896.14	
	Percentage increase over item 2.13.2.2 = (Zx100)/Y				252.90	
	Say				252.90	
2.16	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).					
2.16.1	Depth not exceeding 1.5 m					
	Details of cost for a trench 30m long and					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1.5m deep area 2x30x1.50=90 sqm MATERIAL				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75 \text{ dm}^3$	10 cudm	21.375	260.00	5557.50
1197	Wallings 100mmx 100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ dm}^3$	10 cudm	7.500	260.00	1950.00
302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875 \text{ m}$	metre	3.188	40.00	127.50
	CARRIAGE Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125)^3 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$.				
2204	Carriage of Timber	cum	1.3125	121.29	159.20
0015	Carpenter 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				8356.10
	Add 1 % Water charges				83.56
	TOTAL				8439.66
	Add GST (multiplying factor 0.1405)				1185.77
	TOTAL				9625.43
	Add 15 % Contractor's profit and overheads				1443.81
	Total				11069.24
	Add Cess @ 1% on				110.69
	Cost of 90 Sqm.				11179.93
	Cost per sqm.				124.22
	Say				124.20

2.16.2 Depth exceeding 1.5 m but not exceeding 3 m

Details of cost for a trench 30m long and 1.5m deep
Area 2x30x1.50=90 sqm
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cumdm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75 \text{ dm}^3$	10 cumdm	21.375	260.00	5557.50
1197	Walings 100 mmx 100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 cumdm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ dm}^3$	10 cumdm	7.500	260.00	1950.00
302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875 \text{ m}$ CARRIAGE Poling boards = 3.42 cum Walling= 1.20 cum. Balli struts: $3.14/4 \times (0.125)^2 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$.	metre	3.1875	40.00	127.50
2204	Carriage of Timber	cum	1.3125	121.29	159.20
0015	Carpenter 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	2.00	320.83	641.66
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				8797.59
	Add 1 % Water charges				87.98
	TOTAL				8885.57
	Add GST (multiplying factor 0.1405)				1248.42
	TOTAL				10133.99
	Add 15 % Contractor's profit and overheads				1520.10
	Total				11654.09
	Add Cess @ 1% on				116.54
	Cost of 90 Sqm.				11770.63
	Cost per sqm.				130.78
	Say				130.80

2.16.3 Depth exceeding 3 m but not exceeding 4.5 m

Details of cost for a trench 30m long and 1.5m deep

Area $2 \times 30 \times 1.5 = 90 \text{ sqm}$ MATERIAL

The Material can be used four times on the same work and after use of material credit is given @ 75% of cost

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Poling boards of Second class kail wood in planks $90 \times 0.038 = 3.42 \text{ cum} = 3420 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75 \text{ dm}^3$	10 cudm	21.375	260.00	5557.50
1197	Wallings 100mmx 100mm of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10 = 1.20 \text{ cum} = 1200 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ dm}^3$	10 cudm	7.500	260.00	1950.00
302	Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.5 = 51 \text{ m}$ Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875 \text{ m}$ CARRIAGE Poling boards = 3.42 cum Walling = 1.20 cum.	metre	3.1875	40.00	127.50
2204	Balli struts: $3.14/4 \times (0.125)^2 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$. Carriage of Timber	cum	1.3125	121.29	159.20
	LABOUR				
0015	Carpenter 2nd class	day	1.50	374.50	561.75
0017	Beldar	day	4.00	320.83	1283.32
9999	Sundries	L.S.	80.73	2	161.46
	TOTAL				9800.73
	Add 1 % Water charges				98.01
	TOTAL				9898.73
	Add GST (multiplying factor 0.1405)				1390.77
	TOTAL				11289.50
	Add 15 % Contractor's profit and overheads				1693.43
	Total				12982.93
	Add Cess @ 1% on				129.83
	Cost of 90 Sqm.				13112.76
	Cost per sqm.				145.70
	Say				145.70

2.17 Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered).

2.17.1 Depth not exceeding 1.5 m

Details of cost for a manhole 1.2m x 1.0m
x1.5m- Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.6 \text{ sqm}$

MATERIAL

The Material can be used four times on the
same work and after use of material credit
is given @ 75% of cost

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Poling boards of Second class kail wood in planks $6.60 \times 0.038 = 0.251$ cum = 251 cudm Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875$ dm ³	10 cudm	1.56875	260.00	407.88
1197	Wallings 100mmx 100mm of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.1 \times 0.1 = 0.045$ cum $2 \times 2 \times 0.924 \times 0.1 \times 0.1 = 0.037$ cum. Total Kail wood = 0.082 cum. = 82dm ³ Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125$ dm ³	10 cudm	0.51250	260.00	133.25
302	Safeda ballies 125 mm diameter and 1.50m long $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} =$ 0.4118m	metre	0.41180	40.00	16.47
2204	Carriage of Timber CARRIAGE Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125)^2 \times 6.59 = 0.081$ cum. Total of carriage = 0.414 cum $\times \frac{1}{4} = 0.1035$ cum LABOUR	cum	0.10350	121.2915	12.55
0015	Carpenter 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	0.12	320.83	38.50
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				636.58
	Add 1 % Water charges				6.37
	TOTAL				642.95
	Add GST (multiplying factor 0.1405)				90.33
	TOTAL				733.28
	Add 15 % Contractor's profit and overheads				109.99
	Total				843.27
	Add Cess @ 1% on				8.43
	Cost of 6.6 sqm.				851.70
	Cost per sqm.				129.05
	Say				129.05

2.17.2 Depth exceeding 1.5 m but not exceeding 3 m

Details of cost for a manhole 1.2m x 1.0m
x1.5m- Surface area: $2 \times (1.2 + 1.0) \times 1.5 =$
6.6sqm
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks $6.6 \times 0.038 = 0.251 \text{ cum} = 251 \text{ cu dm}$ Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875 \text{ dm}^3$	10 cu dm	1.56875	260	407.88
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.1 \times 0.1 = 0.045 \text{ cum}$ $2 \times 2 \times 0.924 \times 0.1 \times 0.1 = 0.037 \text{ cum.}$ Total Kail wood = $0.082 \text{ cum.} = 82 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125 \text{ dm}^3$	10 cu dm	0.51250	260	133.25
302	Safeda ballies 125 mm diameter and 1.5m long $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118 \text{ m}$	metre	0.41180	40	16.47
2204	Carriage of Timber CARRIAGE Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125)^2 \times 6.59 = 0.081 \text{ cum.}$ Total of carriage = $0.414 \text{ cum} \times \frac{1}{4} = 0.1035 \text{ cum}$	cum	0.10350	121.2915	12.55
0015	LABOUR Carpenter 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	5.46	2.00	10.92
	TOTAL				706.22
	Add 1 % Water charges				7.06
	TOTAL				713.28
	Add GST (multiplying factor 0.1405)				100.22
	TOTAL				813.50
	Add 15 % Contractor's profit and overheads				122.02
	Total				935.52
	Add Cess @ 1% on				9.36
	Cost of 6.6 sqm.				944.88
	Cost per sqm.				143.16
	Say				143.15

2.17.3 Depth exceeding 3 m but not exceeding 4.5 m

Details of cost for a manhole 1.2m x 1.0m x 1.5m- Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.6 \text{ sqm}$
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks $6.6 \times 0.038 = 0.251 \text{ cum} = 251 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875 \text{ dm}^3$	10 cudm	1.56875	260.00	407.88
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045 \text{ cum}$ $2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037 \text{ cum}$ Total Kail wood = $0.082 \text{ cum} = 82 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125 \text{ dm}^3$	10 cudm	0.5125	260.00	133.25
302	Safeda ballies 125 mm diameter and 1.50m long $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118 \text{ m}$	metre	0.41180	40.00	16.47
2204	Carriage of Timber CARRIAGE Poling boards = 0.251 cum Walling = 0.082 cum Balli struts $3.14/4 \times (0.125)^2 \times 6.59 = 0.081 \text{ cum}$ Total of carriage = $0.414 \text{ cum} \times \frac{1}{4} = 0.1035 \text{ cum}$ LABOUR	cum	0.10350	121.2915	12.55
0015	Carpenter 2nd class	day	0.19	374.50	71.16
0017	Beldar	day	0.38	320.83	121.92
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				779.34
	Add 1 % Water charges				7.79
	TOTAL				787.13
	Add GST (multiplying factor 0.1405)				110.59
	TOTAL				897.73
	Add 15 % Contractor's profit and overheads				134.66
	Total				1032.39
	Add Cess @ 1% on				10.32
	Cost of 6.6 sqm.				1042.71
	Cost per sqm.				157.99
	Say				158.00
2.18	Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered):				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.18.1	Depth not exceeding 1.5 m				
	Details of cost for an area 30m long and 1.50m deep-Area -30x1.5m = 45 sqm.				
	MATERIAL				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71$ cum = 1710 cudm Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875$ dm ³	10 cudm	10.688	260.00	2778.75
1197	Wallings 100mmx 100mm of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30$ cum = 300 cudm Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75$ dm ³	10 cudm	1.875	260.00	487.50
302	Raking struts Safeda ballies 125 mm diameter Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59$ m	metre	1.590	40.00	63.60
2204	Carriage of Timber CARRIAGE Poling boards = 1.71 cum Walling = 0.30 cum Raking struts $3.14/4 \times (0.125)^2 = 0.313$ cum Total of carriage = 2.323 cum $\times \frac{1}{4} = 0.581$ cum	cum	0.581	121.2915	70.47
0015	LABOUR Carpenter 2nd class	day	0.250	374.50	93.63
0017	Beldar	day	0.500	320.83	160.42
9999	Sundries	L.S.	31.460	2.00	62.92
	TOTAL				3717.28
	Add 1 % Water charges				37.17
	TOTAL				3754.45
	Add GST (multiplying factor 0.1405)				527.50
	TOTAL				4281.95
	Add 15 % Contractor's profit and overheads				642.29
	Total				4924.25
	Add Cess @ 1% on				49.24
	Cost of 45 Sqm.				4973.49
	Cost per sqm.				110.52
	Say				110.50

2.18.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for an area 30m long and 1.5m deep-Area -30x1.5m = 45 sqm. MATERIAL The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71 \text{ cum} = 1710 \text{ cum}$ Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875 \text{ dm}^3$	10 cudm	10.6875	260.00	2778.75
1197	Walling of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30 \text{ cum} = 300 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75 \text{ dm}^3$	10 cudm	1.875	260.00	487.50
302	Raking struts Safeda ballies 125 mm diameter 17 x 1.5 = 25.5m Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59 \text{ m}$	metre	1.590	40.00	63.60
2204	Carriage of Timber CARRIAGE Poling boards = 1.71 cum Walling = 0.30 cum. Raking struts $3.14/4 \times (0.125)^2 = 0.313 \text{ cum}$ Total of carriage = $2.323 \text{ cum} \times \frac{1}{4} = 0.581 \text{ cum}$	cum	0.581	121.2915	70.47
0015	LABOUR Carpenter 2nd class	Day	0.500	374.50	187.25
0017	Beldar	Day	1.000	320.83	320.83
9999	Sundries	L.S.	34.060	2.00	68.12
	TOTAL				3976.52
	Add 1 % Water charges				39.77
	TOTAL				4016.29
	Add GST (multiplying factor 0.1405)				564.29
	TOTAL				4580.57
	Add 15 % Contractor's profit and overheads				687.09
	Total				5267.66
	Add Cess @ 1% on				52.68
	Cost of 45 Sqm.				5320.34
	Cost per sqm.				118.23
	Say				118.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.18.3	Depth exceeding 3 m but not exceeding 4.5 m				
	Details of cost for an area 30m long and 1.5m deep-Area -30x1.5m = 45 sqm.				
	MATERIAL				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks 250x38mm : 45x0.038 = 1.71 cum = 1710 cudm Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} =$	10 cudm	10.6875	260.00	2778.75
1197	106.875 dm ³ Walling of Second class kail wood in scantling 100x100mm : 30x0.10x0.10 = 0.30cum = 300 cudm Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75 \text{ dm}^3$	10 cudm	1.875	260.00	487.50
302	Raking struts Safeda ballies 125 mm diameter and 1.5m long 17 x 1.50 = 25.5m Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59 \text{ m}$	metre	1.590	40.00	63.60
2204	CARRIAGE Carriage of Timber Poling boards = 1.71 cum Walling = 0.30 cum. Raking struts $3.14/4 \times (0.125)^2 = 0.313 \text{ cum}$ Total of carriage = $2.323 \text{ cum} \times \frac{1}{4} = 0.581 \text{ cum}$	cum	0.581	121.29	70.47
	LABOUR				
0015	Carpenter 2nd class	day	0.750	374.50	280.88
0017	Beldar	day	1.500	320.83	481.25
9999	Sundries	L.S.	47.580	2.00	95.16
	TOTAL				4257.60
	Add 1 % Water charges				42.58
	TOTAL				4300.18
	Add GST (multiplying factor 0.1405)				604.17
	TOTAL				4904.35
	Add 15 % Contractor's profit and overheads				735.65
	Total				5640.00
	Add Cess @ 1% on				56.40
	Cost of 45 Sqm.				5696.40
	Cost per sqm.				126.59
	Say				126.60
2.19	Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position. (Face area of timber permanently left to be measured).				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a trench 30m long and 1.5m deep area 2x30x1.5=90 sqm				
1198	Poling boards of Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 3420 - 427.5 = 2992.5 dm ³	10 cudm	299.25	260.00	77805.00
1197	Walings 100mmx100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 dm ³	10 cudm	105.00	260.00	27300.00
302	Struts of Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Less @ 1/8 of Qty as timber is supposed to be used once before = 51 - 6.37 = 44.63 m	metre	44.63	40.00	1785.20
2204	Carriage of Timber Poling boards = 3.42 cum Walling= 1.20 cum.	cum	2.68	121.2915	324.45
	Balli struts: $3.14/4 \times (0.125)^2 \times 51 = 0.63$ cum = 5.25 cum Taking half = $5.25 \times \frac{1}{2} = 2.675$ cum				107214.65
	TOTAL				
	Add 1 % Water charges				1072.15
	TOTAL				108286.80
	Add GST (multiplying factor 0.1405)				15214.30
	TOTAL				123501.10
	Add 15 % Contractor's profit and overheads				18525.16
	Total				142026.26
	Add Cess @ 1% on				1420.26
	Cost of 90 Sqm.				143446.52
	Cost per sqm.				1593.85
	Say				1593.85
2.20	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered):				
2.20.1	Depth not exceeding 1.5 m				
	Details of cost for a trench of length 30m and 1.50m deep surface area - 2x30x1.5 = 90 sqm.				
	MATERIAL				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling board of Second class kail wood in planks 1.5mx0.25x0.038m	10 cudm	7.125	260.00	1852.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x40x1.5x0.25x0.038= 1.14cum = 1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25$ cudm				
1197	Second class kail wood in scantling	10 cudm	7.50	260.00	1950.00
	Walling 100mmx100mm : 4x30mx0.10mx0.10m = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ dm ³				
302	Struts of Safeda ballies 125 mm diameter and 1.5m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m	metre	3.18	40.00	127.20
2204	Carriage of Timber CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum x $\frac{1}{4} = 0.74$	cum	0.74	121.2915	89.76
0015	LABOUR Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	19.76	2	39.52
	TOTAL				4313.02
	Add 1 % Water charges				43.13
	TOTAL				4356.15
	Add GST (multiplying factor 0.1405)				612.04
	TOTAL				4968.18
	Add 15 % Contractor's profit and overheads				745.23
	Total				5713.41
	Add Cess @ 1% on				57.13
	Cost of 90 Sqm				5770.55
	Cost per sqm.				64.12
	Say				64.10

2.20.2 Depth exceeding 1.5 m but not exceeding 3 m

Details of cost for a trench of length 30m and
1.5m deep surface area - 2x30x1.5 = 90 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 1.50mx0.25x0.038m 2x40x1.50x0.25x	10 cudm	7.125	260.00	1852.50
	0.038= 1.14cum= 1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25 \text{ dm}^3$				
1197	Wallings of Second class kail wood in scantling 100mmx 100mm: 4x30mx0.10mx0.10m	10 cudm	7.50	260.00	1950.00
	= 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ dm}^3$				
302	Struts of Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m	metre	3.18	40.00	127.20
	Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18 \text{ m}$				
2204	Carriage of Timber CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63 \text{ cum}$ Total of carriage = 2.97 cum x $\frac{1}{4} = 0.74$	cum	0.74	121.2915	89.76
	LABOUR				
0015	Carpenter 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	33.15	2.00	66.30
	TOTAL				4593.84
	Add 1 % Water charges				45.94
	TOTAL				4639.77
	Add GST (multiplying factor 0.1405)				651.89
	TOTAL				5291.66
	Add 15 % Contractor's profit and overheads				793.75
	Total				6085.41
	Add Cess @ 1% on				60.85
	Cost of 90 Sqm				6146.27
	Cost per sqm.				68.29
	Say				68.30

2.20.3 Depth exceeding 3 m but not exceeding 4.5 m

Details of cost for a trench of length 30m and 1.5m deep surface area - $2 \times 30 \times 1.5 = 90 \text{ sqm}$.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks 1.50mx0.25x0.038m : 2x40x1.5x0.25x0.038= 1.14 cum = 1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25 \text{ dm}^3$	10 cudm	7.125	260.00	1852.50
1197	Wallings of Second class kail wood in scantling 100mmx100mm : 4x30mx0.1mx0.1m = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ dm}^3$	10 cudm	7.500	260.00	1950.00
302	Struts of Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18 \text{ m}$	metre	3.180	40.00	127.20
2204	Carriage of Timber CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63 \text{ cum}$ Total of carriage = $2.97 \text{ cum} \times \frac{1}{4} = 0.74$	cum	0.740	121.2915	89.76
0015	LABOUR Carpenter 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	1.75	320.83	561.45
9999	Sundries	L.S.	46.67	2.00	93.34
	TOTAL				5048.75
	Add 1 % Water charges				50.49
	TOTAL				5099.24
	Add GST (multiplying factor 0.1405)				716.44
	TOTAL				5815.68
	Add 15 % Contractor's profit and overheads				872.35
	Total				6688.03
	Add Cess @ 1% on				66.88
	Cost of 90 Sqm				6754.91
	Cost per sqm.				75.05
	Say				75.05

2.21 Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):

2.21.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a manhole 1.2x 1m x 1.5m - Surface area $2(1.2+1.0) \times 1.5 = 6.6$ sqm MATERIAL The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of				
1198	Second class kail wood in planks 250mm wide and 38mm thick $6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86cudm Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ dm ³	10 cudm	0.5375	260	139.75
1197	Walling 100mmx100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.1 \times 0.1 = 0.048$ cum = 48 dm ³ Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ dm ³ Struts of	10 cudm	0.300	260	78.00
302	Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4$ m Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.4$ m	metre	0.400	40	16.00
2204	Carriage of Timber CARRIAGE : Poling boards = 0.086 cum Walling = 0.048 cum Ballies struts $3.14/4 \times (0.125)^2 \times 6.4$ = 0.079 cum Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum	cum	0.053	121.2915	6.43
	LABOUR				
0015	Carpenter 2nd class	day	0.030	374.50	11.24
0017	Beldar	day	0.060	320.83	19.25
9999	Sundries	L.S.	1.820	2.00	3.64
	TOTAL				274.30
	Add 1 % Water charges				2.74
	TOTAL				277.05
	Add GST (multiplying factor 0.1405)				38.93
	TOTAL				315.97
	Add 15 % Contractor's profit and overheads				47.40
	Total				363.37
	Add Cess @ 1% on				3.63
	Cost of 6.6 sqm.				367.00
	Cost per sqm.				55.61
	Say				55.60

2.21.2 Depth exceeding 1.5 m but not exceeding 3 m

Details of cost for a manhole 1.2x 1m x 1.5m
- Surface area $2(1.2+1.0) \times 1.5 = 6.6$ sqm
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.50 \times 0.038 = 0.086 \text{ cum} = 86 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755 \text{ dm}^3$	10 cudm	0.5375	260.00	139.75
1197	Walling 100mmx100mm of Second class kail wood in scantling $4 \times 1.20 \times 0.10 \times 0.10 = 0.048 \text{ cum} = 48 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3 \text{ dm}^3$ Struts of	10 cudm	0.300	260.00	78.00
302	Safeda ballies 125 mm diameter $(4 \times 1.00 = 4.00) + (2 \times 1.20 = 2.40) = 6.40 \text{ m}$ Qty taken for cost of using once after deducting for credit = $6.40 \times \frac{1}{4} \times \frac{1}{4} = 0.40 \text{ m}$	metre	0.400	40.00	16.00
2204	Carriage of Timber CARRIAGE : Poling boards = 0.086 cum Walling = 0.048 cum Ballies struts $3.14/4 \times (0.125)^2 \times 6.40 = 0.079 \text{ cum}$ Total of carriage = $0.213 \text{ cum} \times \frac{1}{4} = 0.053 \text{ cum}$ LABOUR	cum	0.053	121.29	6.43
0015	Carpenter 2nd class	day	0.060	374.50	22.47
0017	Beldar	day	0.120	320.83	38.50
9999	Sundries	L.S.	2.730	2.00	5.46
	TOTAL				306.61
	Add 1 % Water charges				3.07
	TOTAL				309.67
	Add GST (multiplying factor 0.1405)				43.51
	TOTAL				353.18
	Add 15 % Contractor's profit and overheads				52.98
	Total				406.16
	Add Cess @ 1% on				4.06
	Cost of 6.6 sqm.				410.22
	Cost per sqm.				62.15
	Say				62.15

2.21.3 Depth exceeding 3 m but not exceeding 4.5 m

Details of cost for a manhole 1.2x 1m x 1.5m - Surface area $2(1.20+1.00) \times 1.50 = 6.60 \text{ sqm}$
 MATERIAL
 The Material can be used four times on the same work and after use of material credit

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.50 \times 0.038 = 0.086 \text{ cum} = 86 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755 \text{ dm}^3$	10 cudm	0.5375	260.00	139.75
1197	Walling 100mmx100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.10 \times 0.10 = 0.048 \text{ cum} = 48 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3 \text{ dm}^3$ Struts of	10 cudm	0.300	260.00	78.00
302	Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4 \text{m}$ Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.4 \text{ m}$	metre	0.400	40.00	16.00
2204	Carriage of Timber CARRIAGE : Poling boards = 0.086 cum Walling = 0.048 cum Ballies struts $3.14/4 \times (0.125)^2 \times 6.4 =$ 0.079 cum Total of carriage = $0.213 \text{ cum} \times \frac{1}{4} =$ 0.053 cum	cum	0.053	121.29	6.43
0015	LABOUR Carpenter 2nd class	day	0.100	374.50	37.45
0017	Beldar	day	0.200	320.83	64.17
9999	Sundries	L.S.	3.640	2.00	7.28
	TOTAL				349.07
	Add 1 % Water charges				3.49
	TOTAL				352.57
	Add GST (multiplying factor 0.1405)				49.54
	TOTAL				402.10
	Add 15 % Contractor's profit and overheads				60.32
	Total				462.42
	Add Cess @ 1% on				4.62
	Cost of 6.6 sqm.				467.04
	Cost per sqm.				70.76
	Say				70.75

2.22 Open timbering over areas including strutting, shoring etc. complete. (Measurements to be taken of the face area timbered):

2.22.1 Depth not exceeding 1.5 m

Details of cost for an area 30m long and 1.5m
deep area = $30 \times 1.5 = 45 \text{ sqm}$.
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.50 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625 \text{ dm}^3$	10 cudm	3.5625	260.00	926.25
302	Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{ m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75 \text{ m}$	metre	3.750	40.00	150.00
2204	Carriage of Timber CARRIAGE : Poling boards = 0.57 cum Ballies $40 \times 1.5 \times 3.14 / 4 \times 0.125^2 = 0.4 \text{ cum.}$ Total for carriage = $1.31 \text{ cum} \times \frac{1}{4} = 0.3275 \text{ cum}$	cum	0.328	121.29	39.72
0015	LABOUR Carpenter 2nd class	day	0.120	374.50	44.94
0017	Beldar	day	0.250	320.83	80.21
9999	Sundries	L.S.	19.760	2.00	39.52
	TOTAL				1280.64
	Add 1 % Water charges				12.81
	TOTAL				1293.45
	Add GST (multiplying factor 0.1405)				181.73
	TOTAL				1475.18
	Add 15 % Contractor's profit and overheads				221.28
	Total				1696.45
	Add Cess @ 1% on				16.96
	Cost of 45 sqm.				1713.42
	Cost per sqm.				38.08
	Say				38.10

2.22.2 Depth exceeding 1.5 m but not exceeding 3 m

Details of cost for an area 30m long and 1.5m deep area = $30 \times 1.5 = 45 \text{ sqm.}$

MATERIAL

The Material can be used four times on the same work and after use of material credit is given @ 75% of cost

1198	Polling boards of Second class kail wood in planks	10 cudm	3.5625	260.00	926.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	250mm x 38mm $40 \times 1.50 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625 \text{ dm}^3$ Raking struts-				
302	Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{ m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75 \text{ m}$	metre	3.750	40.00	150.00
2204	Carriage of Timber CARRIAGE : Poling boards = 0.57 cum Ballies $40 \times 1.50 \times 3.14 / 4 \times 0.125^2 = 0.4 \text{ cum.}$ Total for carriage = $1.31 \text{ cum} \times \frac{1}{4} = 0.3275 \text{ cum}$	cum	0.328	121.29	39.72
0015	LABOUR Carpenter 2nd class	day	0.250	374.50	93.63
0017	Beldar	day	0.500	320.83	160.42
9999	Sundries	L.S.	33.150	2.00	66.30
	TOTAL				1436.31
	Add 1 % Water charges				14.36
	TOTAL				1450.68
	Add GST (multiplying factor 0.1405)				203.82
	TOTAL				1654.50
	Add 15 % Contractor's profit and overheads				248.17
	Total				1902.67
	Add Cess @ 1% on				19.03
	Cost of 45 sqm.				1921.70
	Cost per sqm.				42.70
	Say				42.70

2.22.3 Depth exceeding 3 m but not exceeding 4.5 m

Details of cost for an area 30m long and 1.5m deep area = $30 \times 1.50 = 45 \text{ sqm.}$

MATERIAL

The Material can be used four times on the same work and after use of material credit is given @ 75% of cost

1198	Polling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.50 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625 \text{ dm}^3$ Raking struts-	10 cudm	3.5625	260.00	926.25
302	Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{ m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75 \text{ m}$	metre	3.750	40.00	150.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of Timber CARRIAGE : Poling boards = 0.57 cum Ballies 40x1.5x3.14/4x0.125 ² = 0.4 cum. Total for carriage = 1.31 cum x ¼ = 0.3275 cum LABOUR	cum	0.328	121.29	39.72
0015	Carpenter 2nd class	day	0.500	374.50	187.25
0017	Beldar	day	0.880	320.83	282.33
9999	Sundries	L.S.	47.580	2.00	95.16
	TOTAL				1680.71
	Add 1 % Water charges				16.81
	TOTAL				1697.52
	Add GST (multiplying factor 0.1405)				238.50
	TOTAL				1936.02
	Add 15 % Contractor's profit and overheads				290.40
	Total				2226.43
	Add Cess @ 1% on				22.26
	Cost of 45 sqm.				2248.69
	Cost per sqm.				49.97
	Say				49.95
2.23	Extra for planking and strutting in open timbering if required to be left permanently in position. (Face area of the timber permanently left to be measured).				
	Details of cost for a trench of length 30m and 1.5m deep surface area - 2x30x1.5 = 90 sqm.				
	MATERIAL				
	Poling boards of				
1198	Second class kail wood in planks 1.50mx0.25x0.038 2x40x1.50x0.25x0.038 = 1.14cum = 1140 cum Less @ 1/8 of Qty as timber is supposed to be used once before = 1140 - 142.5 = 997.5 dm ³	10 cudm	99.750	260.00	25935.00
1197	Walling 100mmx 100mm of Second class kail wood in scantling 4x30mx0.10 mx0.10 m = 1.20cum= 1200 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 dm ³	10 cudm	105.000	260.00	27300.00
302	Struts of Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5= 51m Less @ 1/8 of Qty as timber is supposed to be used once before = 51 - 6.37 = 44.63 m	metre	44.630	40.00	1785.20
2204	Carriage of Timber Poling boards = 1.14 cum Walling = 1.20 cum	cum	1.485	121.29	180.12
					55200.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Ballies struts $51 \times 3.14 \times \frac{1}{4} \times 0.125^2 = 0.63$ cum				
	Total of carriage = 2.97 cum Taking half =				
	$2.97 \times \frac{1}{2} = 1.485$ cum				
	TOTAL				
	Add 1 % Water charges				552.00
	TOTAL				55752.32
	Add GST (multiplying factor 0.1405)				7833.20
	TOTAL				63585.52
	Add 15 % Contractor's profit and overheads				9537.83
	Total				73123.35
	Add Cess @ 1% on				731.23
	Cost of 90 sqm.				73854.58
	Cost per sqm.				820.61
	Say				820.60

2.24 Extra rates for quantities of works, executed:

2.24.1 In or under water and/or liquid mud, including pumping out water as required

Extra due to slow progress and dewatering: 20% of the rate of the item	metre depth	(20 % of the rate of the item. The extra percentage in rate is applicable in respect of each item but limited to quantities of work executed in	
Cost of 1 metre depth			20.00%
Say			20.00%

2.24.2 In or under foul position, including pumping out water as required

Extra due to slow progress and dewatering: 25% of the rate of the item	metre depth	(25% of the rate of the item. This pertains to only such. Pumping of water as is envisaged at the time of tendering and don't include those that covered under contractual risk)	
Cost of 1 metre depth			25.00 %
Say			25.00 %

Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10 m, 2.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.				
	Details of cost for 10 cum.				
	LABOUR				
0028	Mate	day	0.20	320.83	64.17
0018	Coolie	day	2.50	320.83	802.08
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				930.41
	Add 1 % Water charges				9.30
	TOTAL				939.71
	Add GST (multiplying factor 0.1405)				132.03
	TOTAL				1071.74
	Add 15 % Contractor's profit and overheads				160.76
	Total				1232.50
	Add Cess @ 1% on				12.33
	Cost of 10 cum.				1244.83
	Cost of 1 cum.				124.48
	Say				124.50
2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.				
	Details of cost for 10 cum				
2.6.1	Rate as per item no 2.6.1 of SH: 2 EARTH WORK	cum	10.00	131.05	1310.53 A
1.2.2	Rate as per item no 1.2.2 of SH:1 CARRIAGE OF MATERIALS	cum	-10.00	101.07	-1010.67 A
	Add for ramming and watering in layers (Ref. item no 2.27)				
0017	Beldar (1/2x0.89=0.45 day)	day	0.45	320.83	144.37
0011	Bhisti	day	0.35	320.83	112.29
	Carriage of materials upto 5 km				
1.1.2	Rate as per item no 1.1.2 of SH:1 CARRIAGE OF MATERIALS	cum	10.00	152.56	1525.62 A
979	Royalty for good earth	cum	10.00	40.00	400.00
	TOTAL				2482.14
	Add 1 % Water charges except on (A)	656.66			6.57
	TOTAL				2488.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) except	663.23			93.18
	TOTAL				2581.89
	Add 15 % Contractor's profit and overheads except on (A)	756.41			113.46
	Total				2695.35
	Add Cess @ 1% except on (A)	869.88			8.70
	Cost of 10 cum.				2704.05
	Cost of 1 cum.				270.40
	Say				270.40
2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
2.26.1	All kinds of soil				
	Details of cost for 10 cum.				
	LABOUR				
0028	Mate	day	0.10	320.83	32.08
0017	Beldar	day	1.10	320.83	352.91
	TOTAL				385.00
	Add 1 % Water charges				3.85
	TOTAL				388.85
	Add GST (multiplying factor 0.1405)				54.63
	TOTAL				443.48
	Add 15 % Contractor's profit and overheads				66.52
	Total				510.00
	Add Cess @ 1% on				5.10
	Cost of 10 cum.				515.10
	Cost of 1 cum.				51.51
	Say				51.50
2.26.2	Ordinary or hard rock				
	Details of cost for 10 cum.				
	LABOUR				
0028	Mate	day	0.20	320.83	64.17
0017	Beldar	day	1.95	320.83	625.62
	TOTAL				689.78
	Add 1 % Water charges				6.90
	TOTAL				696.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405)				97.88
	TOTAL				794.57
	Add 15 % Contractor's profit and overheads				119.18
	Total				913.75
	Add Cess @ 1% on				9.14
	Cost of 10 cum.				922.89
	Cost of 1 cum.				92.29
	Say				92.30
2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
	Details of cost for 10 cum.				
	MATERIAL				
6501	Sand zone V (Jamuna)	cum	10.00	1225.00	12250.00
2335	Carriage of Sand	cum	10.00	106.1301	1061.30
	LABOUR				
0017	Beldar	Day	0.89	320.83	285.54
0018	Coolie	Day	1.07	320.83	343.29
0011	Bhisti	Day	0.35	320.83	112.29
	TOTAL				14052.42
	Add 1 % Water charges				140.52
	TOTAL				14192.94
	Add GST (multiplying factor 0.1405)				1994.11
	TOTAL				16187.05
	Add 15 % Contractor's profit and overheads				2428.06
	Total				18615.11
	Add Cess @ 1% on				186.15
	Cost of 10 cum.				18801.26
	Cost of 1 cum.				1880.13
	Say				1880.15
2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
2.28.1	All kinds of soil				
	Details of cost for 100 sqm.				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.97	320.83	632.04
0018	Coolie	day	1.29	320.83	413.87
	TOTAL				1045.91
	Add 1 % Water charges				10.46
	TOTAL				1056.36
	Add GST (multiplying factor 0.1405)				148.42
	TOTAL				1204.78
	Add 15 % Contractor's profit and overheads				180.72
	Total				1385.50
	Add Cess @ 1% on				13.86
	Cost of 100 sqm.				1399.36
	Cost of 1 sqm.				13.99
	Say				14.00

2.29 Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.

2.29.1 All kinds of soil

Details of cost for 100 sqm.

LABOUR

0017	Beldar	day	2.75	320.83	882.28
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				1042.70
	Add 1 % Water charges				10.43
	TOTAL				1053.12
	Add GST (multiplying factor 0.1405)				147.96
	TOTAL				1201.09
	Add 15 % Contractor's profit and overheads				180.16
	Total				1381.25
	Add Cess @ 1% on				13.81
	Cost of 100 sqm.				1395.06
	Cost of 1 sqm.				13.95
	Say				13.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.30	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.				
2.30.1	All kinds of soil				
	Details of cost for 10 holes- Earth work 10 x 0.30 (avg) = 3.0 cum				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	3.00	171.40	514.20
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				541.24
	Add 1 % Water charges i.e. on		27.04		0.27
	TOTAL				541.51
	Add GST (multiplying factor 0.1405)		27.31		3.84
	TOTAL				545.35
	Add 15 % Contractor's profit and overheads		81.80		12.27
	Total				557.62
	Add Cess @ 1% on		94.07		0.94
	Cost of 10 holes				558.56
	Cost of 1 hole				55.86
	Say				55.85
2.30.2	Ordinary rock				
	Details of cost for 10 holes- Earth work 10 x 0.3 (avg) = 3.0 cum				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth Work	cum	3.00	290.15	870.46
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	2	27.04
	TOTAL				897.50
	Add 1 % Water charges i.e. on		27.04		0.27
	TOTAL				897.78
	Add GST (multiplying factor 0.1405)		27.31		3.84
	TOTAL				901.61
	Add 15 % Contractor's profit and overheads		31.15		4.67
	Total				906.28
	Add Cess @ 1% on		35.82		0.36
	Cost of 10 holes				906.64
	Cost of 1 hole				90.66
	Say				90.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

2.30.3 Hard rock (requiring blasting)

Details of cost for 10 holes-
Earth work 10 x 0.3 (avg) = 3.0 cum

2.9.2	Rate as per Item Number 2.9.2 of SH: Earth Work Extra labour for filling and ramming	cum	3.00	503.70	1511.10
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				1538.14
	Add 1 % Water charges i.e. on		27.04		0.27
	TOTAL				1538.41
	Add GST (multiplying factor 0.1405)		27.31		3.84
	TOTAL				1542.25
	Add 15 % Contractor's profit and overheads		31.15		4.67
	Total				1546.92
	Add Cess @ 1% on		35.82		0.36
	Cost of 10 holes				1547.28
	Cost of 1 hole				154.73
	Say				154.75

2.30.4 Hard rock (blasting prohibited)

Details of cost for 10 holes-
Earth work 10 x 0.3 (avg) = 3.0 cum

2.9.3	Rate as per Item Number 2.9.3 of SH: Earth Work Extra labour for filling and ramming	cum	3.00	690.05	2070.15 A
9999	Sundries	L.S.	13.52	2	27.04
	TOTAL				2097.19
	Add 1 % Water charges i.e. except on (A)		27.04		0.27
	TOTAL				2097.46
	Add GST (multiplying factor 0.1405)		27.31		3.84
	TOTAL				2101.29
	Add 15 % Contractor's profit and overheads except on (A)		31.15		4.67
	Total				2105.97
	Add Cess @ 1% on		35.82		0.36
	Cost of 10 holes				2106.32
	Cost of 1 hole				210.63
	Say				210.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.				
	Details of cost for 100 sqm. LABOUR				
0017	Beldar	day	1.08	320.83	346.50
0018	Coolie	day	0.60	320.83	192.50
	TOTAL				538.99
	Add 1 % Water charges				5.39
	TOTAL				544.38
	Add GST (multiplying factor 0.1405)				76.49
	TOTAL				620.87
	Add 15 % Contractor's profit and overheads				93.13
	Total				714.00
	Add Cess @ 1% on				7.14
	Cost of 100 sqm.				721.14
	Cost of 1 sqm.				7.21
	Say				7.20
2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.				
	Details of cost for 100 sqm. LABOUR				
0017	Beldar	day	0.60	320.83	192.50
0018	Coolie	day	0.25	320.83	80.21
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				276.35
	Add 1 % Water charges				2.76
	TOTAL				279.11
	Add GST (multiplying factor 0.1405)				39.21
	TOTAL				318.32
	Add 15 % Contractor's profit and overheads				47.75
	Total				366.07
	Add Cess @ 1% on				3.66
	Cost of 100 sqm				369.73
	Cost of 1 sqm				3.70
	Say				3.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.33	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
2.33.1	Beyond 30 cm girth upto and including 60 cm girth				
	Details of cost for one tree of 15cm dia and average height 3m				
	LABOUR				
	quantity of wood-				
	$3.14/4 \times 0.15 \times 0.15 \times 3 = 0.053 \text{ cum.}$				
	Add 20% for branches = 0.011 cum.				
	Total = 0.064 cum.				
	Labour for cutting in trees removing the roots from the soil and then filling in Pit and depressions.				
0017	Beldar	day	0.33	320.83	105.87
0018	Coolie	day	0.17	320.83	54.54
9999	Sundries	L.S.	2.73	2	5.46
	TOTAL				165.88
	Add 1 % Water charges				1.66
	TOTAL				167.53
	Add GST (multiplying factor 0.1405)				23.54
	TOTAL				191.07
	Add 15 % Contractor's profit and overheads				28.66
	Total				219.73
	Add Cess @ 1% on				2.20
	Cost of one tree				221.93
	Say				221.95
2.33.2	Beyond 60 cm girth upto and including 120 cm girth				
	Details of cost for a tree of average girth 90cm, average dia. 0.3m and length 5m				
	LABOUR				
	quantity of wood-				
	$(22 \times 0.30 \times 0.30 \times 5) / 7 \times 4 = 0.35 \text{ cum}$				
	20% branches = 0.07 cum				
	Total = 0.42 cum				
	Labour for cutting trees, removing roots from the soil and filling in pit & depressions:				
0017	Beldar	day	1.50	320.83	481.25
0018	Coolie	day	0.75	320.83	240.62
9999	Sundries	L.S.	5.46	2.00	10.92
	TOTAL				732.79
	Add 1 % Water charges				7.33
	TOTAL				740.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405)				103.99
	TOTAL				844.10
	Add 15 % Contractor's profit and overheads				126.62
	Total				970.72
	Add Cess @ 1% on				9.71
	Cost of one tree				980.42
	Say				980.40

2.33.3 Beyond 120 cm girth upto and including 240 cm girth

Details of cost for a tree of average girth

180cm, average dia. 0.6m and length 7m

LABOUR

quantity of wood-

$(22 \times 0.6 \times 7) / 7 \times 4 = 1.98 \text{ cum.} + 20\%$

branches = 0.40 cum.

Total = 2.38 cum.

Labour for cutting trees, removing roots from the soil and filling in pit & depressions:

0017	Beldar	day	7.00	320.83	2245.81
0018	Coolie	day	3.50	320.83	1122.91
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				3384.84
	Add 1 % Water charges				33.85
	TOTAL				3418.68
	Add GST (multiplying factor 0.1405)				480.33
	TOTAL				3899.01
	Add 15 % Contractor's profit and overheads				584.85
	Total				4483.86
	Add Cess @ 1% on				44.84
	Cost of one tree				4528.70
	Say				4528.70

2.33.4 Above 240 cm girth

Details of cost for a tree of average girth

300cm, average dia. 1m and length 10m

LABOUR

quantity of wood-

$(22 \times 1 \times 1 \times 10) / 7 \times 4 = 7.86 \text{ cum} + 20\%$

Branches = 1.57 cum.

Total = 9.43 cum.

Labour for cutting trees, removing roots from the soil and filling in pit & depressions:

0017	Beldar	day	14.00	320.83	4491.62
0018	Coolie	day	7.00	320.83	2245.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				6791.25
	Add 1 % Water charges				67.91
	TOTAL				6859.16
	Add GST (multiplying factor 0.1405)				963.71
	TOTAL				7822.87
	Add 15 % Contractor's profit and overheads				1173.43
	Total				8996.31
	Add Cess @ 1% on				89.96
	Cost of one tree				9086.27
	Say				9086.25

2.34 Supplying chemical emulsion in sealed containers including delivery as specified.

2.34.1 Chlorpyrifos/ Lindane emulsifiable concentrate of 20%

Details of cost of 100 litres

7022	Chlorpyrifos 20% E.C. / Lindane 20% E.C.	litre	100.00	150.00	15000.00
2342	Carriage of solvent/ Diesel.	quintal	1.00	10.61	10.61
	TOTAL				15010.61
	Add 1 % Water charges				150.11
	TOTAL				15160.72
	Add GST (multiplying factor 0.1405)				2130.08
	TOTAL				17290.80
	Add 15 % Contractor's profit and overheads				2593.62
	Total				19884.42
	Add Cess @ 1% on				198.84
	Cost for 100 litres				20083.26
	Cost for 1 litre				200.83
	Say				200.85

2.35 Diluting and injecting chemical emulsion for POST-CONSTRUCTION antitermite treatment (excluding the cost of chemical emulsion) :

2.35.1 Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:

2.35.1.1 With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration

Details of cost for 10 metres

MATERIAL

Chlorpyrifos 1% concentration = 10.0x

0.30x7.5 = 22.5 litres

Chlorpyrifos 20% required = 22.5/20 = 1.125

litres

Chlorpyrifos 20% E.C. / Lindane 20% E.C.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1.125 litres (to be supplied free of cost)				
	LABOUR				
0017	Beldar (for excavating channel) rodding in chemical spraying the emulsion and refilling the same	day	0.33	320.83	105.87
9999	Sundries, rent of sprayer etc.	L.S.	13.52	2.00	27.04
	TOTAL				132.91
	Add 1 % Water charges				1.33
	TOTAL				134.24
	Add GST (multiplying factor 0.1405)				18.86
	TOTAL				153.10
	Add 15 % Contractor's profit and overheads				22.97
	Total				176.07
	Add Cess @ 1% on				1.76
	Cost for 10 metres				177.83
	Cost for 1 metre				17.78
	Say				17.80

2.35.2 Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:

2.35.2.1 With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration

Details of cost for 10 metres

MATERIAL

Chlorpyrifos 1% concentration = 10x

2.25 = 22.5 litres

Chlorpyrifos 20% required = 22.50/

20 = 1.125 litres

Chlorpyrifos 20% E.C. / Lindane 20% E.C.

1.125 litres (to be supplied free of cost)

LABOUR

0017	Beldar (for drilling holes and injecting chemical)	day	0.40	320.83	128.33
9999	Sundries and rent of a sprayer and mortar and making good the holes	L.S.	35.88	2.00	71.76
	TOTAL				200.09
	Add 1 % Water charges				2.00
	TOTAL				202.09
	Add GST (multiplying factor 0.1405)				28.39
	TOTAL				230.49
	Add 15 % Contractor's profit and overheads				34.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				265.06
	Add Cess @ 1% on				2.65
	Cost for 10 metres				267.71
	Cost for 1 metre				26.77
	Say				26.75
2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
2.35.3.1	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration				
	Details of cost for 9 sqm. (3 metre x 3 metre)				
	No. of holes - 100 nos.				
	MATERIAL				
	Chlorpyrifos 1% required 100x1 litre =				
	100 litres				
	Chlorpyrifos 20% E.C. = 100/20 = 5.0 litres				
	Chlorpyrifos 20% E.C. / Lindane 20% E.C.				
	5 litres (to be supplied free of cost)				
	LABOUR				
0017	Beldar	day	2.00	320.83	641.66
	(For making holes & spraying)				
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
9999	Sundries, rent of sprayer and mortar	L.S.	35.88	2.00	71.76
	TOTAL				900.67
	Add 1 % Water charges				9.01
	TOTAL				909.68
	Add GST (multiplying factor 0.1405)				127.81
	TOTAL				1037.49
	Add 15 % Contractor's profit and overheads				155.62
	Total				1193.11
	Add Cess @ 1% on				11.93
	Cost for 9 square metre				1205.04
	Cost per square metre				133.89
	Say				133.90

2.35.4 Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :

2.35.4.1 With Chlorpyrifos/Lindane E.C. 20% with 1% concentration

Details of cost for 10 metres

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	No. of holes $10.0/0.30 = 33.33+1 = 34.33$ holes Say 34 holes chlorpyriphos 1% concentration required $= 34 \times 1.0 = 34.00$ litres Chlorpyriphos 20% E.C. required $34.00/20 = 1.70$ litres Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.7 litres (to be supplied free of cost) LABOUR				
0017	Beldar	day	0.30	320.83	96.25
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
9999	Sundries, rent of pump etc.	L.S.	17.94	2.00	35.88
	TOTAL				150.85
	Add 1 % Water charges				1.51
	TOTAL				152.36
	Add GST (multiplying factor 0.1405)				21.41
	TOTAL				173.77
	Add 15 % Contractor's profit and overheads				26.07
	Total				199.83
	Add Cess @ 1% on				2.00
	Cost for 10 metres				201.83
	Cost for 1 metre				20.18
	Say				20.20

2.35.5 Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.

	Details of cost for 10 metres MATERIAL No. of holes $10.0/0.15 = 66.67+1 = 67.67$ holes Say 68 holes Chlordane 1% concentration required $= 68 \times 0.5 = 34.00$ litres Chlordane 20% E.C. required $34.00/20 = 1.70$ litres Chlordane 20% E.C./ Lindane 20% E.C. 1.7 litres (to be supplied free of cost) Kerosene oil $= 34 - 1.7 = 32.30$ litres				
771	Kerosene oil	litre	32.30	50.00	1615.00
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(For making holes and plugging the same)				
0017	Beldar	day	0.20	320.83	64.17
	for injecting chemical				
9999	Sundries	L.S.	17.94	2.00	35.88
	TOTAL				1789.95
	Add 1 % Water charges				17.90
	TOTAL				1807.85
	Add GST (multiplying factor 0.1405)				254.00
	TOTAL				2061.85
	Add 15 % Contractor's profit and overheads				309.28
	Total				2371.12
	Add Cess @ 1% on				23.71
	Cost for 10 metres				2394.84
	Cost for 1 metre				239.48
	Say				239.50
2.36	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.				
	Details of cost for 10 cum.				
	LABOUR				
0028	Mate	day	0.08	320.83	25.67
0018	Beldar/ Coolie	day	0.80	320.83	256.66
	TOTAL				282.33
	Add 1 % Water charges				2.82
	TOTAL				285.15
	Add GST (multiplying factor 0.1405)				40.06
	TOTAL				325.22
	Add 15 % Contractor's profit and overheads				48.78
	Total				374.00
	Add Cess @ 1% on				3.74
	Cost of 10 cum.				377.74
	Cost of 1 cum.				37.77
	Say				37.75
2.37	Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).				
	Details of cost for 1 cum.				
	Ref :- Based on DAR Item No : 1.1.1 A) ii)				
	Labour and carriage				
1980	Flyash	cum	1.00	10.00	10.00
	(Available free of cost at thermal power plant at Baderpur power plant. Lead = 35 km)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2262	Carriage of Flyash	cum	1.00	106.13	106.13
	(1st Lead 0 to 5km)				116.13
	TOTAL				
	Add 1 % Water charges				1.16
	TOTAL				117.29
	Add GST (multiplying factor 0.1405)				16.48
	TOTAL				133.77
	Add 15 % Contractor's profit and overheads				20.07
	Total				153.84
	Add Cess @ 1% on				1.54
	Total				155.37
	Cost of 1 cum.				155.37
	Say				155.35
2.38	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer in-charge, including compacting each layer by rolling/ramming and watering, all complete as per drawing and direction of Engineer -in - charge. Details of cost for 10 cum. Ref :- Based on DAR Item No : 2.25 LABOUR				
0028	Mate	day	0.20	320.83	64.17
0018	Coolie	day	2.50	320.83	802.08
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				930.41
	Add 1 % Water charges				9.30
	TOTAL				939.71
	Add GST (multiplying factor 0.1405)				132.03
	TOTAL				1071.74
	Add 15 % Contractor's profit and overheads				160.76
	Total				1232.50
	Add Cess @ 1% on				12.33
	Cost of 10 cum.				1244.83
	Cost of 1 cum.				124.48
	Say				124.50

SUB HEAD : 3.0 MORTAR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.1	Cement mortar 1:1 (1 cement : 1 fine sand)				
	Details of cost for 1 cum				
	MATERIAL				
	(0.7175 cum. of cement = 1.02 tonne) Cement required for cement mortar is 71.25%				
367	Portland Cement	tonne	1.02	4940.00	5038.80
2209	Carriage of Cement	tonne	1.02	94.34	96.22
983	Fine sand	cum	0.7125	900.00	641.25
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	0.7125	106.13	75.62
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.90	2.00	53.80
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				<u>6195.81</u>
	Say				6195.80
3.2	Cement mortar 1:2 (1 cement : 2 fine sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
367	Portland Cement	tonne	0.68	4940.00	3359.20
2209	Carriage of Cement	tonne	0.68	94.34	64.15
983	Fine sand	cum	0.95	900.00	855.00
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	0.95	106.13	100.82
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	<u>27.04</u>
	Cost of 1.00 cum				4723.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				4723.10
3.3	Cement mortar 1:3 (1 cement : 3 fine sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.357 cum. of cement = 0.51 tonne) Cement required for cement mortar is 35.70%				
367	Portland Cement	tonne	0.51	4940.00	2519.40
2209	Carriage of Cement	tonne	0.51	94.34	48.11
983	Fine sand	cum	1.07	900.00	963.00
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3988.01
	Say				3988.00
3.4	Cement mortar 1:4 (1 cement : 4 fine sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.268 cum. of cement = 0.38 tonne) Cement required for cement mortar is 26.80%				
367	Portland Cement	tonne	0.38	4940.00	1877.20
2209	Carriage of Cement	tonne	0.38	94.34	35.85
983	Fine sand	cum	1.07	900.00	963.00
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3333.55
	Say				3333.55
3.5	Cement mortar 1:5 (1 cement : 5 fine sand).				
	Details of cost for 1 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL (0.214 cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
367	Portland Cement	tonne	0.31	4940.00	1531.40
2209	Carriage of Cement	tonne	0.31	94.34	29.24
983	Fine sand	cum	1.07	900.00	963.00
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	1.07	106.13	113.56
	LABOUR For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				2981.14
	Say				2981.15
3.6	Cement mortar 1:6 (1 cement : 6 fine sand). Details of cost for 1 cum				
	MATERIAL (0.178 cum. of cement = 0.25 tonne) Cement required for cement mortar is 17.80%				
367	Portland Cement	tonne	0.25	4940.00	1235.00
2209	Carriage of Cement	tonne	0.25	94.34	23.58
983	Fine sand	cum	1.07	900.00	963.00
2261	Carriage of Fine sand (1 part Fine sand : 2 parts Sand)	cum	1.07	106.13	113.56
	LABOUR For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				2679.08
	Say				2679.10
3.7	Cement mortar 1:2 (1 cement : 2 coarse sand). Details of cost for 1 cum				
	MATERIAL (0.476 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
367	Portland Cement	tonne	0.68	4940	3359.20
2209	Carriage of Cement	tonne	0.68	94.34	64.15
982	Coarse sand	cum	0.95	1350	1282.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of Coarse sand LABOUR For measuring, carrying, depositing and mixing-	cum	0.95	106.13	100.82
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				5150.61
	Say				5150.60
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.357 cum. of cement = 0.51 tonne) Cement required for cement mortar is 35.70%				
367	Portland Cement	tonne	0.51	4940.00	2519.40
2209	Carriage of Cement	tonne	0.51	94.34	48.11
982	Coarse sand	cum	1.07	1350.00	1444.50
2203	Carriage of Coarse sand	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				4469.51
	Say				4469.50
3.9	Cement mortar 1:4 (1 cement : 4 coarse sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.268 cum. of cement = 0.38 tonne) Cement required for cement mortar is 26.80%				
367	Portland Cement	tonne	0.38	4940.00	1877.20
2209	Carriage of Cement	tonne	0.38	94.34	35.85
982	Coarse sand	cum	1.07	1350.00	1444.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of Coarse sand	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3815.05
	Say				3815.05
3.10	Cement mortar 1:5 (1 cement : 5 coarse sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.214 cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
367	Portland Cement	tonne	0.31	4940.00	1531.40
2209	Carriage of Cement	tonne	0.31	94.34	29.24
982	Coarse sand	cum	1.07	1350.00	1444.50
2203	Carriage of Coarse sand	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				3462.64
	Say				3462.65
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.178 cum. of cement = 0.25 tonne) Cement required for cement mortar is 17.80%				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
367	Portland Cement	tonne	0.25	4940.00	1235.00
2209	Carriage of Cement	tonne	0.25	94.34	23.58
982	Coarse sand	cum	1.07	1350.00	1444.50
2203	Carriage of Coarse sand	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3160.58
	Say				3160.60
3.12	Cement mortar 1:2 (1 cement : 2 stone dust).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
367	Portland Cement	tonne	0.68	4940.00	3359.20
2209	Carriage of Cement	tonne	0.68	94.34	64.15
1159	Stone dust	cum	0.95	1100.00	1045.00
2267	Carriage of Stone dust	cum	0.95	106.13	100.82
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				4913.11
	Say				4913.10
3.13	Cement mortar 1:2 (1 cement : 2 marble dust).				
	Details of cost for 1 cum				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(0.475 cum of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
367	Portland Cement	tonne	0.68	4940	3359.20
2209	Carriage of Cement	tonne	0.68	94.33782916	64.15
784	Marble dust/ powder	cum	0.95	1130	1073.50
2268	Carriage of Marble dust and marble chips	cum	0.95	106.1300578	100.82
	LABOUR				
	For measuring, carrying, depositing and mixing				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2	53.82
9999	Sundries	L.S.	13.52	2	27.04
	Cost of 1.00 cum				4941.61
	Say				4941.60
3.14	Cement mortar 1:5 (1 cement : 5 marble dust).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.214 cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
367	Portland Cement	tonne	0.31	4940.00	1531.40
2209	Carriage of Cement	tonne	0.31	94.34	29.24
784	Marble dust/ powder	cum	1.07	1130.00	1209.10
2268	Carriage of Marble dust and marble chips	cum	1.07	106.13	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				3227.24
	Say				3227.25
3.15	White cement mortar 1:2 (1 white cement : 2 marble dust).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.475 cum. of white cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
368	White Cement	tonne	0.68	11200.00	7616.00
2209	Carriage of Cement	tonne	0.68	94.34	64.15
784	Marble dust/ powder	cum	0.95	1130.00	1073.50
2268	Carriage of Marble dust and marble chips	cum	0.95	106.13	100.82
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				9198.41
	Say				9198.40
3.16	White cement mortar 1:3 (1 white cement : 3 marble dust).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.357 cum. of white cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
368	White Cement	tonne	0.51	11200	5712.00
2209	Carriage of Cement	tonne	0.51	94.33782916	48.11
784	Marble dust/ powder	cum	1.07	1130	1209.10
2268	Carriage of Marble dust and marble chips	cum	1.07	106.1300578	113.56
	LABOUR				
	For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2	53.82
9999	Sundries	L.S.	13.52	2	27.04
	Cost of 1.00 cum				7426.71
	Say				7426.70
3.17	White cement mortar 1:5 (1 white cement : 5 marble dust).				
	Details of cost for 1 cum				
	MATERIAL				
	(0.214 cum. of white cement = 0.31 tonne)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement required for cement mortar is 21.40%				
368	White Cement	tonne	0.31	11200.00	3472.00
2209	Carriage of Cement	tonne	0.31	94.34	29.24
784	Marble dust/ powder	cum	1.07	1130.00	1209.10
2268	Carriage of Marble dust and marble chips	cum	1.07	106.13	113.56
	LABOUR For measuring, carrying, depositing and mixing-				
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.07	320.83	22.46
9999	Hire and running charges of mechanical mixer	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	Cost of 1.00 cum				5167.84
	Say				5167.85
3.18	Mud mortar				
	Detail of cost for one cum				
	MATERIAL				
811	Mud (dry)	cum	1.08	165.00	178.20
	LABOUR				
0017	Beldar	day	0.63	320.83	202.12
0011	Bhisti	day	0.315	320.83	101.06
9999	Sundries	L.S.	6.45	2.00	12.90
	TOTAL				494.28
	Cost of one cum				494.28
	Say				494.30
3.19	Mortar in lime, surkhi (50% red and 50% light yellow) and marble dust 1:1.5:0.5				
	Details of cost for 1 cum				
	MATERIAL				
	(0.475 cum of lime putty) = 3.01 q of unslaked lime				
1182	Surkhi	cum	0.7125	700.00	498.75
773	Unslaked lime	quintal	3.01	300.00	903.00
784	Marble dust/ powder	cum	0.24	1130.00	271.20
2268	Marble dust and/or marble chips	cum	0.24	106.13	25.47
2208	Carriage of Lime	cum	3.01	106.13	319.45
	LABOUR				
	For slaking lime, making lime putty, grinding and carrying				
0017	Beldar	day	0.90	320.83	288.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.45	320.83	144.37
9999	As cost for running and upkeep of mortar mill	L.S.	10.35	2	20.70
9999	Sundries	L.S.	5.20	2	10.40
	Cost of 1.00 cum				2482.09
	Say				2482.10

SUB HEAD : 4.0

CONCRETE WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4.1.2	1:1½:3 (1 Cement: 1½ coarse sand) : 3 graded stone aggregate 20 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.850	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement (0.2833 cum)	tonne	0.400	4940.00	1976.00
2209	Carriage of Cement	tonne	0.400	94.34	37.74
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.30	2.00	28.60
	TOTAL				4765.78 W
	Add 1 % Water charges on "W"				47.66
	TOTAL				4813.44 X
	Add GST (multiplying factor 0.1405) on "X"				676.29
	TOTAL				5489.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				823.46
	Total				6313.19 Z
	Add Cess @ 1% on "Z"				63.13
	Cost of 1 cum.				6376.32
	Say				6376.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	1:2:4 (1 cement : 2 coarse sand) : 4 graded stone aggregate 20 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1350.00	904.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1350.00	297.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.890	106.13	94.46
982	Coarse sand	cum	0.445	1350.00	600.75
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23
367	Portland Cement (0.2225 cum)	tonne	0.320	4940.00	1580.80
2209	Carriage of Cement	tonne	0.320	94.34	30.19
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.30	2.00	28.60
	TOTAL				4450.41 W
	Add 1 % Water charges on "W"				44.50
	TOTAL				4494.91 X
	Add GST (multiplying factor 0.1405) on "X"				631.53
	TOTAL				5126.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				768.97
	Total				5895.41 Z
	Add Cess @ 1% on "Z"				58.95
	Cost of 1 cum.				5954.37
	Say				5954.35

4.1.4 1:2:4 (1 Cement : 2 coarse sand) : 4 graded stone aggregate 40 mm nominal size)

Details of cost for 1 cum.

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size 0.56 - (7.5% for voids i.e.) 0.04 = 0.52 cum	cum	0.520	1300.00	676.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.220	1350.00	297.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.110	1350.00	148.50
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.520	115.36	59.99
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.330	106.13	35.02
982	Coarse sand	cum	0.445	1350.00	600.75
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
367	Portland Cement (0.2225 cum)	tonne	0.320	4940.00	1580.80
2209	Carriage of Cement	tonne	0.320	94.34	30.19
	LABOUR				
0040	Mason (average)	day	0.100	374.50	37.45
0017	Beldar	day	1.630	320.83	522.95
0011	Bhisti	day	0.700	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.070	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.070	370.00	25.90
9999	Sundries	L.S.	13.520	2.00	27.04
	TOTAL				4369.40 W
	Add 1 % Water charges on "W"				43.69
	TOTAL				4413.09 X
	Add GST (multiplying factor 0.1405) on "X"				620.04
	TOTAL				5033.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				754.97
	Total				5788.10 Z
	Add Cess @ 1% on "Z"				57.88
	Cost of 1 cum.				5845.98
	Say				5846.00

4.1.5 1:3:6 (1 Cement : 3 coarse sand) : 6 graded stone aggregate 20 mm nominal size)

Details of cost for 1 cum.

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.700	1350.00	945.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.240	1350.00	324.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.940	106.13	99.76
982	Coarse sand	cum	0.470	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.470	106.13	49.88
367	Portland Cement (0.15674 cum)	tonne	0.220	4940.00	1086.80
2209	Carriage of Cement	tonne	0.220	94.34	20.75
	LABOUR				
0040	Mason (average)	day	0.100	374.50	37.45
0017	Beldar	day	1.630	320.83	522.95
0011	Bhisti	day	0.700	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.070	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.070	370.00	25.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				4054.62 W
	Add 1 % Water charges on "W"				40.55
	TOTAL				4095.17 X
	Add GST (multiplying factor 0.1405) on "X"				575.37
	TOTAL				4670.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				700.58
	Total				5371.12 Z
	Add Cess @ 1% on "Z"				53.71
	Cost of 1 cum.				5424.83
	Say				5424.85
4.1.6	1:3:6 (1 Cement : 3 coarse sand): 6 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1300.00	845.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.650	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.240	106.13	25.47
982	Coarse sand	cum	0.470	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.470	106.13	49.88
367	Portland Cement (0.15674 cum)	tonne	0.220	4940.00	1086.80
2209	Carriage of Cement	tonne	0.220	94.34	20.75
	LABOUR				
0040	Mason (average)	day	0.100	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				3955.31 W
	Add 1 % Water charges on "W"				39.55
	TOTAL				3994.87 X
	Add GST (multiplying factor 0.1405) on "X"				561.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4556.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				683.42
	Total				5239.57 Z
	Add Cess @ 1% on "Z"				52.40
	Cost of 1 cum.				5291.96
	Say				5291.95
4.1.8	1:4:8 (1 Cement : 4 coarse sand) : 8 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1300.00	845.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement (0.1175 cum)	tonne	0.17	4940.00	839.80
2209	Carriage of Cement	tonne	0.17	94.34	16.04
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				3703.60 W
	Add 1 % Water charges on "W"				37.04
	TOTAL				3740.63 X
	Add GST (multiplying factor 0.1405) on "X"				525.56
	TOTAL				4266.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				639.93
	Total				4906.12 Z
	Add Cess @ 1% on "Z"				49.06
	Cost of 1 cum.				4955.18
	Say				4955.20
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4.1.10	1:5:10 (1 cement : 5 coarse sand): 10 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement (0.2225 cum)	tonne	0.13	4940.00	642.20
2209	Carriage of Cement	tonne	0.13	94.34	12.26
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				3502.22 W
	Add 1 % Water charges on "W"				35.02
	TOTAL				3537.25 X
	Add GST (multiplying factor 0.1405) on "X"				496.98
	TOTAL				4034.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				605.13
	Total				4639.36 Z
	Add Cess @ 1% on "Z"				46.39
	Cost of 1 cum.				4685.76
	Say				4685.75
4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
983	Fine sand	cum	0.47	900.00	423.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.47	106.13	49.88
367	Portland Cement (0.2225 cum)	tonne	0.13	4940.00	642.20
2209	Carriage of Cement	tonne	0.13	94.34	12.26
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	8.97	2	17.94
	TOTAL				3281.62 W
	Add 1 % Water charges on "W"				32.82
	TOTAL				3314.44 X
	Add GST (multiplying factor 0.1405) on "X"				465.68
	TOTAL				3780.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				567.02
	Total				4347.14 Z
	Add Cess @ 1% on "Z"				43.47
	Cost of 1 cum.				4390.61
	Say				4390.60
4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand) : 9 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.17	4940.00	839.80
2209	Carriage of Cement	tonne	0.17	94.34	16.04
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.30	2.00	28.60
	TOTAL				3583.93 W
	Add 1 % Water charges on "W"				35.84
	TOTAL				3619.77 X
	Add GST (multiplying factor 0.1405) on "X"				508.58
	TOTAL				4128.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				619.25
	Total				4747.60 Z
	Add Cess @ 1% on "Z"				47.48
	Cost of one cum.				4795.08
	Say				4795.10
4.1.13	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand) : 11 graded stone aggregate 40 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.34	1350.00	459.00
2203	Carriage of Coarse sand	cum	0.34	106.13	36.08
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.13	4940.00	642.20
2209	Carriage of Cement	tonne	0.13	94.34	12.26
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.30	2.00	28.60
	TOTAL				3338.87 W
	Add 1 % Water charges on "W"				33.39
	TOTAL				3372.26 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				473.80
	TOTAL				3846.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				576.91
	Total				4422.98 Z
	Add Cess @ 1% on "Z"				44.23
	Cost of one cum.				4467.20
	Say				4467.20
4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :				
4.2.2	1:1½:3 (1 cement : 1½ coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 1 cum.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.850	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement (0.2833 cum)	tonne	0.400	4940.00	1976.00
2209	Carriage of Cement	tonne	0.400	94.34	37.74
	LABOUR				
0017	Beldar	day	0.900	320.83	288.75
0018	Coolie	day	0.780	320.83	250.25
0011	Bhisti	day	0.70	320.83	224.58
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Scaffolding	L.S.	114.40	2.00	228.80
9999	Sundries	L.S.	14.30	2.00	28.60
0018	Coolie	day	1.88	320.83	603.16
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				5627.37 W
	TOTAL				
	Add 1 % Water charges on "W"				56.27
	TOTAL				5683.64 X
	Add GST (multiplying factor 0.1405) on "X"				798.55
	TOTAL				6482.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				972.33
	Total				7454.52 Z
	Add Cess @ 1% on "Z"				74.55
	Cost of 1 cum.				7529.07
	Say				7529.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
	Details of cost for 1 cum.				
	MATERIAL				
296	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1350.00	904.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1350.00	297.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.890	106.13	94.46
982	Coarse sand	cum	0.445	1350.00	600.75
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23
367	Portland Cement (0.2833 cum)	tonne	0.320	4940.00	1580.80
2209	Carriage of Cement	tonne	0.320	94.34	30.19
	LABOUR				
0017	Beldar	day	0.900	320.83	288.75
0018	Coolie	day	0.780	320.83	250.25
0011	Bhisti	day	0.700	320.83	224.58
0023	Mason (brick layer) 1st class	day	0.060	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.060	374.50	22.47
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.070	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Scaffolding	L.S.	114.40	2.00	228.80
9999	Sundries	L.S.	14.30	2.00	28.60
0018	Coolie	day	1.88	320.83	603.16
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				5311.99 W
	TOTAL				
	Add 1 % Water charges on "W"				53.12
	TOTAL				5365.11 X
	Add GST (multiplying factor 0.1405) on "X"				753.80
	TOTAL				6118.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				917.84
	Total				7036.74 Z
	Add Cess @ 1% on "Z"				70.37
	Cost of 1 cum.				7107.11
	Say				7107.10

4.2.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Details of cost for 1 cum.

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.700	1350.00	945.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.240	1350.00	324.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.940	106.13	99.76
982	Coarse sand	cum	0.470	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.470	106.13	49.88
367	Portland Cement (0.15674 cum)	tonne	0.220	4940.00	1086.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of Cement	tonne	0.220	94.34	20.75
	LABOUR				
0017	Beldar	day	0.900	320.83	288.75
0018	Coolie	day	0.780	320.83	250.25
0011	Bhisti	day	0.700	320.83	224.58
0023	Mason (brick layer) 1st class	day	0.060	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.060	374.50	22.47
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.070	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Scaffolding (17.60x2.5 avg.)	L.S.	114.40	2.00	228.80
9999	Sundries	L.S.	13.52	2.00	27.04
0018	Coolie	day	1.88	320.83	603.16
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				4916.20 W
	TOTAL				
	Add 1 % Water charges on "W"				49.16
	TOTAL				4965.37 X
	Add GST (multiplying factor 0.1405) on "X"				697.63
	TOTAL				5663.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				849.45
	Total				6512.45 Z
	Add Cess @ 1% on "Z"				65.12
	Cost of 1 cum.				6577.57
	Say				6577.55

4.2.8 1:5:10 (1 cement : 5 coarse sand) : 10 graded stone aggregate 40 mm nominal size).

Details of cost for 1 cum.

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.650	1300.00	845.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.650	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.240	106.13	25.47
982	Coarse sand	cum	0.470	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.470	106.13	49.88
367	Portland Cement	tonne	0.130	4940.00	642.20
2209	Carriage of Cement	tonne	0.130	94.34	12.26
	LABOUR				
0017	Beldar	day	0.900	320.83	288.75
0018	Coolie	day	0.780	320.83	250.25
0011	Bhisti	day	0.700	320.83	224.58
0023	Mason (brick layer) 1st class	day	0.100	476.00	47.60
002	Hire charges of Concrete Mixer 0.25 to	day	0.070	800.00	56.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.40 cum with hooper				
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Scaffolding	L.S.	114.40	2.00	228.80
9999	Sundries	L.S.	14.30	2.00	28.60
0018	Coolie	day	1.88	320.83	603.16
	(Extra labour for lifting material upto floor V level = $0.75 \times 2.5 = 1.88$)				4361.94 W
	TOTAL				
	Add 1 % Water charges on "W"				43.62
	TOTAL				4405.55 X
	Add GST (multiplying factor 0.1405) on "X"				618.98
	TOTAL				5024.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				753.68
	Total				5778.22 Z
	Add Cess @ 1% on "Z"				57.78
	Cost of 1 cum.				5836.00
	Say				5836.00
4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
4.3.1	Foundations, footings, bases for columns				
	Details of cost for footing size 2.7mx2.7mx1.00m Contact area = 10.8 sqm. MATERIAL				
	Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.340	860.00	292.40
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	240.00	20.40
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.170	910.00	154.70
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.340	76.00	25.84
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.170	59.00	10.03
7330	M.S. tube 40 mm dia Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.230	215.00	49.34
9999	Assembly nuts & bolts	L.S.	22.100	2.00	44.20
9977	Carriage	L.S.	78.000	2.00	156.00
	LABOUR				
0019	Fitter (grade 1)	day	0.750	476.00	357.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.500	320.83	481.25
9999	Shuttering oil	L.S.	52.000	2.00	104.00
9999	Sundries	L.S.	26.000	2.00	52.00
	TOTAL				1747.16 W
	Add 1 % Water charges on "W"				17.47
	TOTAL				1764.63 X
	Add GST (multiplying factor 0.1405) on "X"				247.93
	TOTAL				2012.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				301.88
	Total				2314.44 Z
	Add Cess @ 1% on "Z"				23.14
	Cost for 10.8 sqm.				2337.59
	Cost per sqm.				216.44
	Say				216.45

4.3.2 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.

Details for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm.

MATERIAL

Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost

7319	Wall form panel 1250x500 mm Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.510	860.00	438.60
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.170	910.00	154.70
7328	Double clip (bridge clip) Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.510	76.00	38.76
7329	Single clip Qty taken for cost of using once = $12 \times 0.85 / 40 = 0.255$	each	0.255	59.00	15.05
7330	M.S. tube 40 mm dia Qty taken for cost of using once = $32 \times 0.85 / 40 = 0.68$	metre	0.680	215.00	146.20
9999	Nut & Bolts	L.S.	27.620	2.00	55.24
9977	Carriage	L.S.	78.000	2.00	156.00
	LABOUR				
0019	Fitter (grade 1)	day	3.500	476.00	1666.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	6.000	320.83	1924.98
9999	Shuttering oil	L.S.	78.000	2.00	156.00
9999	Sundries	L.S.	52.000	2.00	104.00
	TOTAL				4855.53 W
	Add 1 % Water charges on "W"				48.56
	TOTAL				4904.08 X
	Add GST (multiplying factor 0.1405) on "X"				689.02
	TOTAL				5593.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				838.97
	Total				6432.07 Z
	Add Cess @ 1% on "Z"				64.32
	Cost for 15.8 sqm.				6496.39
	Cost per sqm.				411.16
	Say				411.15
4.3.3	Columns, piers, abutments, pillars, posts and struts				
	Detail of cost for				
	Size of column 450x450mm and 2.5m high Area of contact = $4 \times 0.45 \times 2.5 = 4.5$ sqm.				
	MATERIAL				
	Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of material				
	Less salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm	each	0.170	860.00	146.20
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7332	Corner angle 45x45x5 m 2.50 m long	each	0.085	255.00	21.68
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
7333	Column clamp 450x1070 m	each	0.106	965.00	102.58
	Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$				
7334	Prop 2 m (2-3.5m)	each	0.085	635.00	53.98
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
9999	Assembly nut & bolt	L.S.	27.620	2.00	55.24
9977	CARRIAGE LABOUR	L.S.	52.000	2.00	104.00
0019	Fitter (grade 1)	day	1.000	476.00	476.00
0017	Beldar	day	2.000	320.83	641.66
9999	Shuttering oil	L.S.	39.000	2.00	78.00
9977	Carriage	L.S.	26.000	2.00	52.00
	TOTAL				1731.33 W
	Add 1 % Water charges on "W"				17.31
	TOTAL				1748.64 X
	Add GST (multiplying factor 0.1405) on "X"				245.68
	TOTAL				1994.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				299.15
	Total				2293.48 Z
	Add Cess @ 1% on "Z"				22.93
	Cost for 4.5 sqm.				2316.41
	Cost per sqm.				514.76
	Say				514.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.				
4.4.1	1:1½:3 (1 Cement: 1½ coarse sand) : 3 graded stone aggregate 20 mm nominal size)				
	Details of cost for Plain window sill 15 nos. 15x1m x 0.20m x 0.15m = 0.45cum. Details of cost for kerb : 100m long 20cm deep and 30cm wide 100m x 0.30m x 0.20m = 6.00 cum. Cement concrete 1:2:4				
4.1.2	Rate as per Item No.4.1.2 of SH:CONCRETE WORK	cum	6.00	6376.30	38257.82
	Cost for 6 cum.				38257.82
	Cost per cum.				6376.30
	Say				6376.30
4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.				
4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20mm nominal size)				
	Detail of cost for plain window sill 15 No. 15x1 mtrx0.20mt.x0.15mtr.=0.45 Cum MATERIAL Cement concrete 1:1½:3				
4.1.2	Rate as per Item Number 4.1.2 of SH: Concrete work	cum	0.45	6376.30	2869.34 A
0018	Coolie (Extra labour for lifting = 0.45 x 0.45 x 2.5 = 0.51) Centering and shuttering (1) Mould (i) Plate 3mm thick (2x1x0.15)+(2x0.15x0.20) = 0.36 sqm. @ 23.55kg/m ² = 8.48 kg. (ii) Flat 10x5mm 4x1.0 = 4.0m 8x0.2 = 1.6m 4x0.15 = 0.60m Handle 2x0.25 = 0.5m 6.70m @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.112x 0.75/40 = 0.0021 qtl = 0.21 kg	day	0.51	320.83	163.62
10.1	Rate as per item no.10.1 S.H. steel work (2) Moulding Platform Assuming platform will become unserviceable after use of 40 times. (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm	kg	0.21	77.55	16.29 A
11.1.2	Rate as per item no. 11.1.2 of S.H.: Flooring work (ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10cum	sqm	0.10	704.55	70.46 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost of using once = $0.100/40 = 0.0025 \text{ cum}$				
11.7	Rate as per item no. 11.7 of S.H.: Flooring work	cum	0.0025	6281.30	15.70 A
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	2	72.60
	TOTAL				3208.00 W
	Add 1 % Water charges on "W-A"	236.22			2.36
	TOTAL				3210.37 X
	Add GST (multiplying factor 0.1405) on "X-A"	238.59			33.52
	TOTAL				3243.89 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	272.11			40.82
	Total				3284.70 Z
	Add Cess @ 1% on "Z-A"	312.92			3.13
	Cost for 0.45 cum.				3287.83
	Cost per cum.				7306.30
	Say				7306.30
4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.				
4.6.1	1:1½:3 (1 Cement: 1½ coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 25 no kerbs, 40x30x20cm =25 no x 0.40m x 0.30m x 0.20m = 0.6 cum				
	MATERIAL				
	Cement concrete 1:1.5:3				
4.1.2	Rate as per Item No.4.1.2 of SH:CONCRETE WORK	cum	0.600	6376.30	3825.78 A
	Centering and shuttering				
	(1) Mould				
	(i) Plate 3mm thick				
	0.28 sqm. @ 23.55kg/m ² = 6.59 kg.				
	(ii) Flat 10x5mm				
	Handle				
	2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.				
	= 6.79kg. or 0.068 qtl.				
	Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.				
	Qty taken for cost of using once = $0.068 \times 0.75/40 = 0.001275 \text{ qtl} = 0.1275 \text{ kg}$				
10.1	Rate as per item no.10.1 S.H. steel work	kg	0.1275	77.55	9.89 A
	(2) Moulding Platform				
	Assuming platform will become unserviceable after use of 40 times.				
	(i) Brick on edge flooring cement mortar 1:6				
	1x2.0x2.0m = 4 sqm.				
	Qty taken for cost of using once = $4/40 = 0.1 \text{ sqm}$				
11.1.2	Rate as per item no. 11.1.2 S.H.: Flooring work.	sqm	0.1000	704.55	70.46 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement				
	2.00x2.00x0.025 = 0.100				
	Qty taken for cost of using once = $0.100/40 = 0.0025 \text{ cum}$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	6281.30	15.70 A
9999	Mortar and labour for finishing	L.S.	30.540	2	61.08
	TOTAL				3982.91 W
	Add 1 % Water charges on "W-A"	61.08			0.61
	TOTAL				3983.52 X
	Add GST (multiplying factor 0.1405) on "X-A"	61.69			8.67
	TOTAL				3992.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	70.36			10.55
	Total				4002.74 Z
	Add Cess @ 1% on "Z-A"	80.91			0.81
	Cost for 0.6 cum.				4003.55
	Cost per cum.				6672.58
	Say				6672.60
4.7	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :				
4.7.1	1:1½:3 (1 Cement: 1½ coarse sand) : 3 graded stone aggregate 20 mm nominal size) .				
	Details of cost for 25 no blocks, 40x20x30cm =25 no x 0.40m x 0.30m x 0.20m = 0.6 cum MATERIAL Cement concrete 1:1.5:3				
4.1.2	Rate as per Item No.4.1.2 of SH:CONCRETE WORK	cum	0.600	6376.30	3825.782 A
	Centering and shuttering				
	(1) Mould				
	(i) Plate 3mm thick				
	0.28 sqm. @ 23.55kg/m ² = 6.59 kg.				
	(ii) Flat 10x5mm				
	Handle				
	2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.				
	= 6.79kg. or 0.068 qtl.				
	Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.				
	Qty taken for cost of using once = 0.068x				
	0.75/80 = 0.001275 qtl = 0.1275 kg				
10.1	Rate as per item no.10.1 S.H. steel work	kg	0.1275	77.55	9.888 A
	(2) Moulding Platform				
	Assuming platform will become unserviceable after use of 40 times.				
	(i) Brick on edge flooring cement mortar 1:6				
	1x2.0x2.0m = 4 sqm.				
	Qty taken for cost of using once =				
	4/40 = 0.1 sqm				
11.1.2	Rate as per item no. 11.1.2 S.H.: Flooring work.	sqm	0.100	704.55	70.455 A
	(ii) 25mm thick cement concrete 1:2:4 in pavement				
	2.00x2.00x0.025 = 0.100				
	Qty taken for cost of using once				
	= 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH:Flooring	cum	0.0025	6281.30	15.703 A
	Mortar 1:3 for Fixing				
	0.202/100x25=0.051				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item No 3.8	cum	0.051	4469.50	227.945
	Extra for Labour for lifting (27/100x25=0.675 or 0.68)				
0018	Coolie	day	0.680	320.83	218.164
	Labour for hoisting and setting in position				
0023	Mason (brick layer) 1st class	day	0.600	476.00	285.600
0017	Beldar	day	3.600	320.83	1154.988
	TOTAL				5808.53 W
	Add 1 % Water charges on "W-A"	1886.70			18.87
	TOTAL				5827.39 X
	Add GST (multiplying factor 0.1405) on "X-A"	1905.56			267.73
	TOTAL				6095.12 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2173.30			325.99
	Total				6421.12 Z
	Add Cess @ 1% on "Z-A"	2499.29			24.99
	Cost for 0.6 cum.				6446.11
	Cost per cum.				10743.52
	Say				10743.50
4.8	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.				
4.8.1	1:1½:3 (1 Cement: 1½ coarse sand): 3 graded stone aggregate 20 mm nominal size) .				
	Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm finished contents = 1mx0.5mx0.1m = 0.05cum				
	MATERIAL				
	Cement concrete 1:1.5:3				
	Net qty = 0.05[6x0.5x{2x1/2(0.05+7)}x0.074] = 0.023cum				
4.1.2	Rate as per Item No.4.1.2 of SH:CONCRETE WORK	cum	0.023	6376.30	146.65 A
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc. Cement mortar 1:2 for fixing	L.S.	26.910	2	53.82
3.7	Rate as per Item No.3.7 of SH:MORTARS	cum	0.002	5150.60	10.30
	LABOUR				
	Extra Labour for lifting material upto floor V level				
0018	Coolie	day	0.056	320.83	17.97
	Labour for hoisting and setting in position				
0023	Mason (brick layer) 1st class	day	0.050	476.00	23.80
0017	Beldar	day	0.300	320.83	96.25
	TOTAL				348.79 W
	Add 1 % Water charges on "W-A"	202.14			2.02
	TOTAL				350.81 X
	Add GST (multiplying factor 0.1405) on "X-A"	204.16			28.68
	TOTAL				379.50 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	232.84			34.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				414.42 Z
	Add Cess @ 1% on "Z-A"	267.77			2.68
	Cost for 0.05 cum.				417.10
	Cost per cum.				8342.03
	Say				8342.05
4.9	Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size), including necessary excavation of size 250x250x450mm deep for the same in bitumen/ concrete pavement at specified spacing				
	Details of Cost for one bollard				
	MATERIAL				
	Cement concrete 1:2:4				
	$3.14/4 \times (0.125) \times (0.125) \times 0.60 = 0.007 \text{ cum}$				
5.1.3	Rate as per Item no. 5.1.3 SH : RCC	cum	0.007	6234.10	43.64 A
	Centering and shuttering				
	$3.14 \times (0.125) \times 0.60 = 0.24 \text{ sqm}$				
5.9.1	Rate as per Item no. 5.9.1 SH : RCC	sqm	0.240	216.45	51.95 A
	M.S. pipes (medium class)				
	50 mm dia sleeve = $1 \times 0.30 \times 5.10 = 1.53 \text{ kg}$				
	40 mm dia pipe = $1 \times 0.45 \times 3.61 = 1.62 \text{ kg}$				
	M.S. plate 3mm thick = $(0.15 \times 0.15) \times 23.55 = 0.53 \text{ kg}$				
	Total = 3.68 kg				
10.1	Rate as per Item no. 10.1 SH : Steel work	kg	3.680	77.55	285.38 A
	Excavation				
	$0.25 \times 0.25 \times 0.45 = 0.03 \text{ cum}$				
2.8.1	Rate as per Item no. 2.8.1 SH : Earth work Cement concrete 1:3:6	cum	0.030	171.40	5.14 A
4.1.5	Rate as per Item no. 4.1.5 SH : Cement concrete 6 mm rendering (1:3) $(0.24 + 0.01) = 0.25 \text{ sqm}$	cum	0.030	5424.85	162.75 A
5.23	Rate as per Item no. 5.23 SH : RCC	sqm	0.250	142.35	35.59 A
9988	Carriage and fixing charges	L.S.	13.000	2	26.00
	TOTAL				610.45 W
	Add 1 % Water charges on "W-A"	26.00			0.26
	TOTAL				610.71 X
	Add GST (multiplying factor 0.1405) on "X-A"	26.26			3.69
	TOTAL				614.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	29.95			4.49
	Total				618.89 Z
	Add Cess @ 1% on "Z-A"	34.44			0.34
	Cost for one bollard				619.23
	Say				619.25
4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand): 4 graded stone aggregate 12.5mm nominal size)				
	Details of cost for 10 sqm				
	MATERIAL				
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)				
	$10 \times 0.040 = 0.40 \text{ cum}$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per item no 4.1.3 of SH: Concrete work	cum	0.40	5954.35	2381.74 A
	Add deduct for difference of cost between 20mm size and 12.5mm size				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	-0.67	1350.00	-904.50
296	Stone Aggregate (Single size) : 12.5 mm nominal size Add for delay	cum	0.67	1350.00	904.50
0023	Mason (brick layer) 1st class	day	0.40	476.00	190.40
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
9999	Sundries (Form work etc.)	L.S.	1.95	2.00	3.90
	TOTAL				2725.84 W
	Add 1 % Water charges on "W-A"	344.10			3.44
	TOTAL				2729.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	347.54			48.83
	TOTAL				2778.11 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	396.37			59.46
	Total				2837.56 Z
	Add Cess @ 1% on "Z-A"	455.83			4.56
	Cost for 10 sqm				2842.12
	Cost for 1 sqm				284.21
	Say				284.20
4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand) : 4 graded stone aggregate 20mm nominal size).				
	Details of cost for 10 sqm				
	MATERIAL				
	Cement concrete 1:2:4 = 10x0.05 = 0.50 cum				
4.1.3	Rate as per item no 4.1.3 of SH:Concrete work Add for delay :	cum	0.50	5954.35	2977.18 A
0023	Mason (brick layer) 1st class	day	0.40	476.00	190.40
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
9999	Sundries (Form work etc.)	L.S.	13.52	2.00	27.04
	TOTAL				3344.42 W
	Add 1 % Water charges on "W-A"	367.24			3.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3348.09 X
	Add GST (multiplying factor 0.1405) on "X-A"	370.91			52.11
	TOTAL				3400.20 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	423.03			63.45
	Total				3463.65 Z
	Add Cess @ 1% on "Z-A"	486.48			4.86
	Cost for 10 sqm.				3468.52
	Cost of 1 sqm.				346.85
	Say				346.85
4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.				
	Details of cost for per bag of 50kg. of cement				
	MATERIAL				
	Approved waterproofing materials according to the recommended proportions				
1213	Water proofing materials	kilo gram	1.00	35.00	35.00
9988	Carriage of water proofing material and labour for mixing etc.	L.S.	3.64	2	7.28
	TOTAL				42.28 W
	Add 1 % Water charges on "W"				0.42
	TOTAL				42.70 X
	Add GST (multiplying factor 0.1405) on "X"				6.00
	TOTAL				48.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.31
	Total				56.01 Z
	Add Cess @ 1% on "Z"				0.56
	Cost per bag of cement of 50kg.				56.57
	Say				56.55
4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.				
	Details of cost for 10sqm.				
	MATERIAL				
309	Paving bitumen VG-10 of approved quality	tonne	0.0170	25614.00	435.44
771	Kerosene oil	litre	1.2300	50.00	61.50
	Fuel for heating				
370	Coal (steam)	quintal	0.0350	440.00	15.40
2211	Carriage of Tar bitumen	tonne	0.0170	106.1301	1.80
	LABOUR				
	Cleaning surface and applying kerosene oil				
0017	Beldar	day	0.1200	320.83	38.50
	Heating the material				
0018	Coolie	day	0.0700	320.83	22.46
	Spreading hot tar over damp proof course				
0031	Painter	day	0.2000	374.50	74.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Sundries (Carriage of kerosene, steam coal, brushes, T&P etc.)	L.S.	33.1500	2.00	66.30
	TOTAL				716.30 W
	Add 1 % Water charges on "W"				7.16
	TOTAL				723.46 X
	Add GST (multiplying factor 0.1405) on "X"				101.65
	TOTAL				825.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				123.77
	Total				948.88 Z
	Add Cess @ 1% on "Z"				9.49
	Cost for 10 sqm.				958.36
	Cost of 1 sqm.				95.84
	Say				95.85
4.14	Extra for concrete work in superstructure above floor V level for each four floors or part thereof.				
	Details of cost per cum.				
	Extra labour element required for lifting of materials (0.75x2.00 = 1.50)				
0018	Coolie	day	1.50	320.83	481.25
	TOTAL				481.25 W
	Add 1 % Water charges on "W"				4.81
	TOTAL				486.06 X
	Add GST (multiplying factor 0.1405) on "X"				68.29
	TOTAL				554.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				83.15
	Total				637.50 Z
	Add Cess @ 1% on "Z"				6.38
	Cost for 1 cum.				643.88
	Say				643.90
4.15	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.				
	Details of cost for 14 cum per 0.3m depth Quantity of concrete = 14 cum.				
	pumping hours = 3 hrs. or 0.375 day.				
011	Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00	262.50
0017	Beldar for cleaning slush	day	4.00	320.83	1283.32
	TOTAL				1545.82 W
	Add 1 % Water charges on "W"				15.46
	TOTAL				1561.28 X
	Add GST (multiplying factor 0.1405) on "X"				219.36
	TOTAL				1780.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				267.10
	Total				2047.73 Z
	Add Cess @ 1% on "Z"				20.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 14cum. per 0.30 m depth				2068.21
	Cost of cum. per m depth				492.43
	Say				492.45
4.16	Extra for laying concrete in or under foul positions.				
	Details of cost for 1 cum.				
	Extra labour due to slow progress-				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.15	320.83	48.12
	TOTAL				145.34 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.80 X
	Add GST (multiplying factor 0.1405) on "X"				20.62
	TOTAL				167.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.11
	Total				192.53 Z
	Add Cess @ 1% on "Z"				1.93
	Cost for 1 cum.				194.46
	Say				194.45
4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.				
	Detail of cost for 10 sqm				
	MATERIAL				
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	0.75	650.00	487.50
2260	Carriage of Brick aggregate	cum	0.75	115.36	86.52
983	Fine sand	cum	0.06	900.00	54.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.06	106.13	6.37
	Dressing the gound including cutting and filling upto 15cm				
0017	Beldar	day	0.16	320.83	51.33
0018	Coolie	day	0.11	320.83	35.29
	MATERIAL				
	Cement concrete 1:3:6 Qty. of cement concrete 1:3:6 on 10 sqm. area = 0.5cum.				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.35	1350.00	472.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.12	1350.00	162.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.47	106.13	49.88
982	Coarse sand	cum	0.23	1350.00	310.50
2203	Carriage of Coarse sand	cum	0.23	106.13	24.41
367	Portland Cement	tonne	0.11	4940.00	543.40
2209	Carriage of Cement	tonne	0.11	94.34	10.38
	Labour (for C.C 1:3:6)				
0017	Beldar	day	1.00	320.83	320.83
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0011	Bhisti	day	0.33	320.83	105.87
9999	Hire and runing charges of mechanical mixer	L.S.	13.39	2.00	26.78
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0040	Mason (average)	day	0.27	374.50	101.12
0017	Beldar	day	1.08	320.83	346.50
0018	Coolie	day	1.08	320.83	346.50
	TOTAL				3578.99 W
	Add 1 % Water charges on "W"				35.79
	TOTAL				3614.78 X
	Add GST (multiplying factor 0.1405) on "X"				507.88
	TOTAL				4122.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				618.40
	Total				4741.06 Z
	Add Cess @ 1% on "Z"				47.41
	Cost of 10.00 sqm				4788.47
	Cost of 1.00 sqm				478.85
	Say				478.85
4.18	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/Flooring/water retaining structures by using 125gms of synthetic Polyester triangular fibre for 50 Kg cement used as per directions of Engineer-in-Charge.				
	Detail of cost for per bag of 50 kg of cement used in concrete				
	MATERIAL				
8732	Synthetic polyester triangular fibre of length 12mm, effective dia 10-40 microns and specific gravity of 1.34 to 1.40	kg	0.1250	365.00	45.63
	TOTAL				45.63 W
	Add 1 % Water charges on "W"				0.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				46.08 X
	Add GST (multiplying factor 0.1405) on "X"				6.47
	TOTAL				52.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.88
	Total				60.44 Z
	Add Cess @ 1% on "Z"				0.60
	Cost per bag of 50 kg of cement				61.04
	Say				61.05

4.19 Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.

Note : (1) Excess/less cement used than specified in this item is payable/ recoverable separately.

(2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.

4.19.1 All works upto plinth level:

4.19.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)

Details of cost for 1.00 cum

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.24	4940.00	1185.60
2209	Carriage of Cement	tonne	0.24	94.34	22.64
7318	Plasticizer / super plasticizer	kilogram	1.20	36.00	43.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/ cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. Labour for pouring, consolidating & curing	cum	1.00	210.00	210.00
0040	Mason (average)	Day	0.17	374.50	63.67
0017	Beldar	Day	2.00	320.83	641.66
0011	Bhisti	Day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	Day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				4990.02 W
	Add 1 % Water charges on "W"				49.90
	TOTAL				5039.92 X
	Add GST (multiplying factor 0.1405) on "X"				708.11
	TOTAL				5748.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				862.20
	Total				6610.24 Z
	Add Cess @ 1% on "Z"				66.10
	Cost per 1.00 cum				6676.34
	Say				6676.35

4.19.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Details of cost for 1.00 cum

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.22	4940.00	1086.80
2209	Carriage of Cement	tonne	0.22	94.34	20.75
7318	Plasticizer / super plasticizer Production cost, pumping to respective floors and laying in position	kilogram	1.10	36.00	39.60
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. Labour for pouring, consolidating & curing	cum	1.00	210.00	210.00
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
Total					4885.74 W
Add 1 % Water charges on "W"					48.86
TOTAL					4934.59 X
Add GST (multiplying factor 0.1405) on "X"					693.31
TOTAL					5627.90 Y
Add 15 % Contractor's profit and overheads on "Y"					844.19
Total					6472.09 Z
Add Cess @ 1% on "Z"					64.72
Cost per 1.00 cum					6536.81
Say					6536.80

4.19.2 All works above plinth and upto floor V level:

4.19.2.1 M-15 grade plain cement concrete (cement content considered @ 240 kg. / cum)

Details of cost for 1.00 cum

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.24	4940.00	1185.60
2209	Carriage of Cement	tonne	0.24	94.34	22.64
7318	Plasticizer / super plasticizer	kilogram	1.20	36.00	43.20
	Production cost, pumping to respective floors and laying in position	m			
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	Day	0.17	374.5	63.67
0017	Beldar	Day	2.00	320.8	641.66
0011	Bhisti	Day	0.90	320.8	288.75
012	Vibrator(Needle type 40mm)	Day	0.07	370.0	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				
0018	Coolie	day	1.88	320.83	603.16
	Total				5383.18 W
	Add 1 % Water charges on "W"				53.83
	TOTAL				5437.02 X
	Add GST (multiplying factor 0.1405) on "X"				763.90
	TOTAL				6200.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				930.14
	Total				7131.05 Z
	Add Cess @ 1% on "Z"				71.31
	Cost per 1.00 cum				7202.36
	Say				7202.35

4.19.2.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Details of cost for 1.00 cum

MATERIAL

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.22	4940.00	1086.80
2209	Carriage of Cement	tonne	0.22	94.34	20.75
7318	Plasticizer / super plasticizer	kilogra	1.10	36.00	39.60
	Production cost, pumping to respective floors and laying in position	m			
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/	10.00	30.00	300.00
	Labour for pouring, consolidating & curing	cum			0.00
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level = $0.75 \times 2.5 = 1.88$)				
0018	Coolie	day	1.88	320.83	603.16
	Total				5278.90 W
	Add 1 % Water charges on "W"				52.79
	TOTAL				5331.69 X
	Add GST (multiplying factor 0.1405) on "X"				749.10
	TOTAL				6080.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				912.12
	Total				6992.91 Z
	Add Cess @ 1% on "Z"				69.93
	Cost per 1.00 cum				7062.83
	Say				7062.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.20	Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.				
Note :	1) Excess/less cement used than specified in this item is payable/ recoverable separately.				
4.20.1	All works upto plinth level :				
4.20.1.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)				
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement	tonne	0.24	4940.00	1185.60
2209	Carriage of Cement	tonne	0.24	94.34	22.64
7318	Plasticizer / super plasticizer	kilogram	1.20	36.00	43.20
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				5111.25 W
	Add 1 % Water charges on "W"				51.11
	TOTAL				5162.36 X
	Add GST (multiplying factor 0.1405) on "X"				725.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5887.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				883.15
	Total				6770.82 Z
	Add Cess @ 1% on "Z"				67.71
	Cost per 1.00 cum				6838.53
	Say				6838.55
4.20.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)					
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement	tonne	0.22	4940.00	1086.80
2209	Carriage of Cement	tonne	0.22	94.34	20.75
7318	Plasticizer / super plasticizer	kilogram	1.10	36.00	39.60
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				5006.96
	Add 1 % Water charges on "W"				50.07
	TOTAL				5057.03 X
	Add GST (multiplying factor 0.1405) on "X"				710.51
	TOTAL				5767.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				865.13
	Total				6632.68 Z
	Add Cess @ 1% on "Z"				66.33
	Cost per 1.00 cum				6699.00
	Say				6699.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.20.2	All works above plinth and upto floor V level :				
4.20.2.1	M-15 grade plain cement concrete. (cement content considered @ 240 kg./cum)				
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement	tonne	0.24	4940.00	1185.60
2209	Carriage of Cement	tonne	0.24	94.34	22.64
7318	Plasticizer / super plasticizer	kilogram	1.20	36.00	43.20
	Production cost, pumping to respective floors and laying in position	m			0.00
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				
0018	Coolie	day	1.88	320.83	603.16
	Total				5504.41 W
	Add 1 % Water charges on "W"				55.04
	TOTAL				5559.45 X
	Add GST (multiplying factor 0.1405) on "X"				781.10
	TOTAL				6340.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				951.08
	Total				7291.64 Z
	Add Cess @ 1% on "Z"				72.92
	Cost per 1.00 cum				7364.56
	Say				7364.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.20.2.2	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)				
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.47	1350.00	634.50
2203	Carriage of Coarse sand	cum	0.47	106.13	49.88
367	Portland Cement	tonne	0.22	4940.00	1086.80
2209	Carriage of Cement	tonne	0.22	94.34	20.75
7318	Plasticizer / super plasticizer	kilogra	1.10	36.00	39.60
	Production cost, pumping to respective floors and laying in position	m			
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/	10.00	30.00	300.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level = 0.75 x 2.5 = 1.88)				
0018	Coolie	day	1.88	320.83	603.16
	Total				5400.12
	Add 1 % Water charges on "W"				54.00
	TOTAL				5454.12 X
	Add GST (multiplying factor 0.1405) on "X"				766.30
	TOTAL				6220.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				933.06
	Total				7153.49 Z
	Add Cess @ 1% on "Z"				71.53
	Cost per 1.00 cum				7225.03
	Say				7225.05

SUB HEAD : 5.0

REINFORCED CEMENT CONCRETE

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand): 3 graded stone aggregate 20 mm nominal size)				
	Details of cost for 1 cum				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement (0.2833 cum)	tonne	0.40	4940.00	1976.00
2209	Carriage of Cement	tonne	0.40	94.34	37.74
	LABOUR				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.3	2.00	28.60
	TOTAL				4974.87 W
	Add 1 % Water charges on "W"				49.75
	TOTAL				5024.62 X
	Add GST (multiplying factor 0.1405) on "X"				705.96
	TOTAL				5730.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				859.59
	Total				6590.17 Z
	Add Cess @ 1% on "Z"				65.90
	Cost of 1 cum.				6656.07
	Say				6656.05
5.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1350.00	904.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1350.00	297.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.89	106.13	94.46
982	Coarse sand	cum	0.445	1350.00	600.75
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23
367	Portland Cement (0.2225 cum)	tonne	0.32	4940.00	1580.80
2209	Carriage of Cement	tonne	0.32	94.34	30.19
	LABOUR				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	14.30	2.00	28.60
	TOTAL				4659.49 W
	Add 1 % Water charges on "W"				46.59
	TOTAL				4706.09 X
	Add GST (multiplying factor 0.1405) on "X"				661.21
	TOTAL				5367.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				805.09
	Total				6172.39 Z
	Add Cess @ 1% on "Z"				61.72
	Cost of 1 cum.				6234.11
	Say				6234.10
5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size)				
	Details of cost for 9.18 cum.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.2326	1350.00	7064.01
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.5704	1350.00	3470.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	7.803	106.13	828.13
982	Coarse sand	cum	3.9015	1350.00	5267.03
2203	Carriage of Coarse sand	cum	3.9015	106.13	414.07
367	Portland Cement (0.2833 cum)	tonne	3.672	4940.00	18139.68
2209	Carriage of Cement	tonne	3.672	94.34	346.41
	LABOUR				
0017	Beldar	day	11.29	320.83	3622.17
0018	Coolie	day	7.53	320.83	2415.85
0011	Bhisti	day	8.26	320.83	2650.06
0023	Mason (brick layer) 1st class	day	0.92	476.00	437.92
0024	Mason (brick layer) 2nd class	day	0.92	374.50	344.54
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.64	800.00	512.00
012	Vibrator(Needle type 40mm)	day	0.64	370.00	236.80
9999	Sundries	L.S.	131.82	2.00	263.64
9999	Scaffolding	L.S.	420.03	2.00	840.06
	Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5 = 17.21				
0018	Coolie	day	17.21	320.83	5521.48
	TOTAL				52373.88 W
	Add 1 % Water charges on "W"				523.74
	TOTAL				52897.62 X
	Add GST (multiplying factor 0.1405) on "X"				7432.12
	TOTAL				60329.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				9049.46
	Total				69379.20 Z
	Add Cess @ 1% on "Z"				693.79
	Cost for 9.18 cum.				70072.99
	Cost for 1 cum.				7633.22
	Say				7633.20
5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 1 cum.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement (0.2833 cum)	tonne	0.40	4940.00	1976.00
2209	Carriage of Cement	tonne	0.40	94.34	37.74
	LABOUR				
0040	Mason (average)	day	0.24	374.50	89.88
0017	Beldar	day	2.75	320.83	882.28
0011	Bhisti	day	0.90	320.83	288.75
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.08	800.00	64.00
012	Vibrator(Needle type 40mm)	day	0.08	370.00	29.60
9999	Sundries	L.S.	14.30	2.00	28.60
	Extra labour for lifting material upto floor V level: Coolie (2.5x0.75=1.88)				
0018	Coolie	day	1.88	320.83	603.16
	TOTAL				5856.57 W
	Add 1 % Water charges on "W"				58.57
	TOTAL				5915.14 X
	Add GST (multiplying factor 0.1405) on "X"				831.08
	TOTAL				6746.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				1011.93
	Total				7758.15 Z
	Add Cess @ 1% on "Z"				77.58
	Cost for 1 cum.				7835.73
	Say				7835.75
5.4	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 1 cum.				
	MATERIAL				
4.4.1	Cement concrete 1:1.5:3	cum	1.00	6376.30	6376.30 A
	(Rate as per item no 4.4.1 of SH:Concrete work)				
	LABOUR				
	Extra labour for laying CC in RCC work :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.10	320.83	32.08
0011	Bhisti	day	0.20	320.83	64.17
0023	Mason (brick layer) 1st class	day	0.04	476.00	19.04
0024	Mason (brick layer) 2nd class	day	0.04	374.50	14.98
0028	Mate	day	0.04	320.83	12.83
	(Extra labour for lifting material upto floor V level : Coolie = $0.75 \times 2.5 = 1.88$)				
0018	Coolie	day	1.88	320.83	603.16
	TOTAL				7122.57 W
	Add 1 % Water charges on "W-A"	746.26			7.46
	TOTAL				7130.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	753.73			105.90
	TOTAL				7235.93 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	859.62			128.94
	Total				7364.87 Z
	Add Cess @ 1% on "Z-A"	988.57			9.89
	Cost for 1 cum.				7374.76
	Say				7374.75
5.5	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size). Details of cost for 26.73cum for semicircular arch 6m clear span and 9m long and 30cm thick. Cement concrete 1:1.5:3 = $1 \times 0.50 \times 3.14 \times 6.30 \times 9.00 \times 0.30 = 26.73 \text{ cum}$ MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	15.236	1350.00	20568.60
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	7.484	1350.00	10103.40
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	22.703	106.13	2409.47
982	Coarse sand	cum	11.36	1350.00	15336.00
2203	Carriage of Coarse sand	cum	11.36	106.13	1205.64
367	Portland Cement (0.2833 cum)	tonne	10.692	4940.00	52818.48
2209	Carriage of Cement	tonne	10.692	94.34	1008.66
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0040	Mason (average)	day	6.42	374.50	2404.29
0017	Beldar	day	73.51	320.83	23584.21
0011	Bhisti	day	24.06	320.83	7719.17
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	2.14	800.00	1712.00
012	Vibrator(Needle type 40mm)	day	2.14	370.00	791.80
9999	Sundries	L.S.	401.89	2.00	803.78
	Extra for laying CC over curved surfaces				
0023	Mason (brick layer) 1st class	day	5.00	476.00	2380.00
0024	Mason (brick layer) 2nd class	day	5.00	374.50	1872.50
0011	Bhisti	day	1.50	320.83	481.25
0018	Coolie	day	4.50	320.83	1443.74
	(Extra labour for lifting material upto floor V level : Coolie = $0.75 \times 2.5 \times 26.73 = 50.12$)				
0018	Coolie	day	50.12	320.83	16080.00
	TOTAL				162722.98 W
	Add 1 % Water charges on "W"				1627.23
	TOTAL				164350.21 X
	Add GST (multiplying factor 0.1405) on "X"				23091.20
	TOTAL				187441.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				28116.21
	Total				215557.63 Z
	Add Cess @ 1% on "Z"				2155.58
	Cost for 26.73 cum.				217713.20
	Cost for 1 cum.				8144.90
	Say				8144.90
5.6	Reinforced cement concrete work in chimneys, shafts, up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 1 cum.				
	MATERIAL				
	RCC 1:1½:3 in chimneys & shafts				
5.2.2	Rate as per Item No.5.2.2 of	cum	1.00	7633.20	7633.20 A
	SH: REINFORCED CEMENT CONCRETE				
	LABOUR				
	Extra labour involved for lifting materials				
0018	Coolie	day	0.26	320.83	83.42
	TOTAL				7716.62 W
	Add 1 % Water charges on "W-A"	83.42			0.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				7717.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	84.25			11.84
	TOTAL				7729.29 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	96.09			14.41
	Total				7743.70 Z
	Add Cess @ 1% on "Z-A"	110.50			1.11
	Cost for 1 cum.				7744.81
	Say				7744.80
5.7	Reinforced cement concrete work in well-steining, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 1 cum.				
	MATERIAL				
	RCC 1:1½:3 in well steining				
4.1.2	Rate as per Item No.4.1.2 of SH: CONCRETE	cum	1.00	6376.30	6376.30 A
	WORK				
	LABOUR				
	Extra labour involved :				
0018	Coolie	day	0.08	320.83	25.67
	TOTAL				6401.97 W
	Add 1 % Water charges on "W-A"	25.67			0.26
	TOTAL				6402.23 X
	Add GST (multiplying factor 0.1405) on "X-A"	25.92			3.64
	TOTAL				6405.87 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	29.57			4.43
	Total				6410.30 Z
	Add Cess @ 1% on "Z-A"	34.00			0.34
	Cost for 1 cum.				6410.64
	Say				6410.65
5.8	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand) : 3 graded stone aggregate 20mm nominal size).				
	Details of cost for 4 RCC Vertical fins 4m high and 1m center with 2 horizontal fins, all projecting 60cm from face of wall and 5cm thick = 0.66 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement Concrete 1:1.5.3 4x4x0.60x0.05 = 0.48 cum. 2x3x0.06x0.05 = 0.18 cum. Total = 0.66 cum. MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.3762	1350.000	507.87
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.1848	1350.000	249.48
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.561	106.13	59.54
982	Coarse sand	cum	0.2805	1350.00	378.68
2203	Carriage of Coarse sand	cum	0.2805	106.13	29.77
367	Portland Cement (0.2833 cum)	tonne	0.264	4940.00	1304.16
2209	Carriage of Cement	tonne	0.264	94.34	24.91
	LABOUR				
0017	Beldar	day	0.79	320.83	253.46
0018	Coolie	day	0.56	320.83	179.66
0011	Bhisti	day	0.6	320.83	192.50
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
9999	Scaffolding	L.S.	30.16	2.00	60.32
9999	Sundries	L.S.	9.49	2.00	18.98
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.05	800.00	40.00
012	Vibrator(Needle type 40mm)	day	0.05	370.00	18.50
0018	Coolie	day	0.18	320.83	57.75
	Extra for restricted working in fins				0.00
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.10	320.83	32.08
0011	Bhisti	day	0.15	320.83	48.12
	TOTAL				3549.33 W
	Add 1 % Water charges on "W"				35.49
	TOTAL				3584.82 X
	Add GST (multiplying factor 0.1405) on "X"				503.67
	TOTAL				4088.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				613.27
	Total				4701.76 Z
	Add Cess @ 1% on "Z"				47.02
	Cost for 0.66 cum.				4748.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 cum.				7195.12
	Say				7195.10
5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
5.9.1	Foundations, footings, bases of columns, etc. for mass concrete				
	Details of cost for footing size 2.7mx2.7mx1.00m Contact area = 10.8 sqm. MATERIAL Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	860.00	292.40
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	240.00	20.40
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	910.00	154.70
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	76.00	25.84
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	59.00	10.03
7330	M.S. tube 40 mm dia Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.2295	215.00	49.34
9999	Assembly nuts & bolts Qty taken for cost using once = $1040 \times 0.85 / 40 = 22.10$	L.S.	22.100	2.00	44.20
9977	Carriage LABOUR	L.S.	78.000	2.00	156.00
0019	Fitter (grade 1)	day	0.75	476.00	357.00
0017	Beldar	day	1.50	320.83	481.25
9999	Shuttering oil	L.S.	52.00	2.00	104.00
9999	Sundries	L.S.	26.00	2.00	52.00
	TOTAL				1747.16 W
	Add 1 % Water charges on "W"				17.47
	TOTAL				1764.63 X
	Add GST (multiplying factor 0.1405) on "X"				247.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2012.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				301.88
	Total				2314.44 Z
	Add Cess @ 1% on "Z"				23.14
	Cost for 10.8 sqm.				2337.59
	Cost per sqm.				216.44
	Say				216.45
5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.				
	Details for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm.				
	MATERIAL				
	Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24Nos. Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.51	860.00	438.60
7327	100 mm channel shoulder 2.5 m long $4 \times 2 = 8$ Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	910.00	154.70
7328	Double clip (bridge clip) $2 \times 6 \times 2 = 24$ Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$	each	0.51	76.00	38.76
7329	Single clip $2 \times 3 \times 2 = 12$ Qty taken for cost of using once = $12 \times 0.85 / 40 = 0.255$	each	0.255	59.00	15.05
7330	M.S. tube 40 mm dia $2 \times 2 \times 8 \text{m} = 32 \text{m}$ Qty taken for cost of using once = $32 \times 0.85 / 40 = 0.68$	metre	0.68	215.00	146.20
9999	Nut & Bolts Qty taken for cost using once = $1300 \times 0.85 / 40 = 27.62$	L.S.	27.62	2.00	55.24
9977	Carriage	L.S.	78.00	2.00	156.00
	LABOUR				
0019	Fitter (grade 1)	day	3.50	476.00	1666.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Shuttering oil	L.S.	78.00	2.00	156.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	52.00	2.00	104.00
	TOTAL				4855.53 W
	Add 1 % Water charges on "W"				48.56
	TOTAL				4904.08 X
	Add GST (multiplying factor 0.1405) on "X"				689.02
	TOTAL				5593.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				838.97
	Total				6432.07 Z
	Add Cess @ 1% on "Z"				64.32
	Cost for 15.8 sqm.				6496.39
	Cost per sqm.				411.16
	Say				411.15

5.9.3 Suspended floors, roofs, landings, balconies and access platform

Detail of cost for a room

4.50x3 = 13.50 sqm, height 3.5 m

MATERIAL

Adding for maintenance @ 10% of cost Taking
salvage value after full use of material @ 25%
of cost

1. Plates (size 0.75 x 0.60)

Angle 40x40x5mm

2x0.75 = 1.50 m

2x0.60 = 1.20 m

= 2.70 m @ 3.00 kg/m = 8.1 kg sheet 1.6 mm
thick 0.75x0.60 = 0.45 sqm

0.45 sqm @ 12.55kg/sqm = 5.65kg

Weight of one plate = 13.75kg

Add for wastage @ 5% = 0.69 kg

Total = 14.44kg

Total weight of all plates = 5x6x14.44 = 433.2
kg.

Qty taken for cost using once =

433.2x0.85/40 = 9.2055 kg

10.1	Rate as per item no.10.1 S.H. steel work	kg	9.2055	77.55	713.90 A
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1480.00	157.32
	Qty taken for cost using once =				
	5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	955.00	121.76
	Qty taken for cost using once =				
	6x0.85/40 = 0.1275				
9999	4. Assembly nut & bolts etc.	L.S.	22.10	2.00	44.20
	Qty taken for cost using once =				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1040x0.85/40 = 22.10				
9977	Carriage	L.S.	130.00	2.00	260.00
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Shuttering oil	L.S.	78.00	2.00	156.00
9999	Sundries, paper tap etc.	L.S.	49.70	2.00	99.40
	TOTAL				4905.57 W
	Add 1 % Water charges on "W-A"	4191.67			41.92
	TOTAL				4947.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	4233.58			594.82
	TOTAL				5542.30 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4828.40			724.26
	Total				6266.56 Z
	Add Cess @ 1% on "Z-A"	5552.66			55.53
	Cost for 13.50 sqm.				6322.09
	Cost per sqm.				468.30
	Say				468.30
5.9.4	Shelves (Cast in situ)				
	Detail of cost for a room				
	4.50x3 = 13.50 sqm, height 3.5 m				
	MATERIAL				
	Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
	1. Plates (size 0.75 x 0.60)				
	Angle 40x40x5mm				
	2x0.75 = 1.50 m				
	2x0.60 = 1.20 m				
	= 2.70 m @ 3.00 kg/m = 8.1 kg sheet 1.6 mm thick 0.75x0.60 = 0.45 sqm				
	0.45 sqm @ 12.55kg/sqm = 5.65kg				
	Weight of one plate = 13.75kg				
	Add for wastage @ 5% = 0.69 kg				
	Total = 14.44kg				
	Total weight of all plates = 5x6x14.44 = 433.2 kg.				
	Qty taken for cost using once =				
	433.2x0.85/40 = 9.2055 kg				
10.1	Rate as per item no.10.1 S.H. steel work	kg	9.2055	77.55	713.90 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1480.00	157.32
	Qty taken for cost using once = $5 \times 0.85 / 40 = 0.1063$				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	955.00	121.76
	Qty taken for cost using once = $6 \times 0.85 / 40 = 0.1275$				
9999	4. Assembly nut & bolts etc.	L.S.	22.10	2.00	44.20
	Qty taken for cost using once = $1040 \times 0.85 / 40 = 22.10$				
9977	Carriage	L.S.	130.00	2.00	260.00
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Shuttering oil	L.S.	78.00	2.00	156.00
9999	Sundries, paper tap etc.	L.S.	49.70	2.00	99.40
	TOTAL				4905.57 W
	Add 1 % Water charges on "W-A"	4191.67			41.92
	TOTAL				4947.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	4233.58			594.82
	TOTAL				5542.30 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4828.40			724.26
	Total				6266.56 Z
	Add Cess @ 1% on "Z-A"	5552.66			55.53
	Cost for 13.50 sqm.				6322.09
	Cost per sqm.				468.30
	Say				468.30

5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers

Consider a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor
Cubical contents

$$6.60 \times 0.5 \times 0.3 = 0.99 \text{ cum}$$

$$1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$$

MATERIAL

Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of Less salvage value of material after full use @ 25% of cost of material

1. Steel plates for side and bottom

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(plate size 1.20 x 0.50m) Angle 40x40x5mm 2x1.20 = 2.40 m 3x0.50 = 1.50 m 3.90 m @ 3.00 kg/m = 11.70 kg sheet 1.6 mm thick 1.20m x 0.50 m = 0.60 sqm. 0.60 sqm @ 12.55 kg/sqm. = 7.53 kg. Weight of one plate = 19.23 kg. Add for wastage @ 5% = 0.96 kg. Total = 20.19 kg. Total weight of all plates 3x5x20.19 = 302.85 kg or 3.03 q Qty taken for cost of using once = 302.85x0.85/40 = 6.4356 kg.				
10.1	Rate as per item no.10.1 S.H. steel work	kg	6.4356	77.55	499.09 A
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost of using once = 6x0.85/40 = 0.1275 m	each	0.1275	955.00	121.76
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063 m	each set	0.1063	355.00	37.74
9999	(iv) Assembly nut & bolts etc. Qty taken for cost of using once = 1040x0.85/40 = 22.10	L.S.	22.10	2.00	44.20
9977	Carriage LABOUR	L.S.	78.00	2.00	156.00
0019	Fitter (grade 1)	day	1.25	476.00	595.00
0017	Beldar	day	2.50	320.83	802.08
9999	Shuttering oil	L.S.	39.00	2.00	78.00
9999	Sundries, paper tape etc.	L.S.	24.61	2.00	49.22
	TOTAL				2383.09 W
	Add 1 % Water charges on "W-A"	1883.99			18.84
	TOTAL				2401.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	1902.83			267.35
	TOTAL				2669.27 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2170.18			325.53
	Total				2994.80 Z
	Add Cess @ 1% on "Z-A"	2495.71			24.96
	Cost for 7.80 sqm.				3019.76
	Cost per sqm.				387.15
	Say				387.15
5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts Detail of cost for 4.5 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Size of column 450x450mm and 2.5m high Area of contact = $4 \times 0.45 \times 2.5 = 4.5$ sqm. MATERIAL Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of Less salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	860.00	146.20
7332	Corner angle 45x45x5 m 2.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	255.00	21.68
7333	Column clamp 450x1070 m Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$	each	0.1063	965.00	102.58
7334	Prop 2 m (2-3.5m) Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	635.00	53.98
9999	Assembly nut & bolt Qty taken for cost of using once = $1300 \times 0.85 / 40 = 27.62$	L.S.	27.62	2.00	55.24
9977	Carriage LABOUR	L.S.	52.00	2.00	104.00
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0017	Beldar	day	2.00	320.83	641.66
9999	Shuttering oil	L.S.	39.00	2.00	78.00
9977	Carriage	L.S.	26.00	2.00	52.00
	TOTAL				1731.33 W
	Add 1 % Water charges on "W"				17.31
	TOTAL				1748.64 X
	Add GST (multiplying factor 0.1405) on "X"				245.68
	TOTAL				1994.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				299.15
	Total				2293.48 Z
	Add Cess @ 1% on "Z"				22.93
	Cost for 4.5 sqm.				2316.41
	Cost per sqm.				514.76
	Say				514.75
5.9.7	Stairs, (excluding landings) except spiral-staircases				
	Details of cost for 5.79 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of staircase, 3.40m clear span including 1m landing. MATERIAL (i) Cost of plank 38mm (2nd class kail wood) Waist $2.69 \times 1.30 = 3.50 \text{ sqm}$. Side shuttering of steps and side of waist- Steps = $8 \times 1.30 \times 1.15 = 1.56 \text{ sqm}$. Face of landing $1 \times 1.30 \times 0.15 = 0.20 \text{ sqm}$. Side of waist $2.69 \times 0.13 = 0.35 \text{ sqm}$. Side of steps- $8 \times 0.50 \times 0.30 \times 0.15 = 0.18 \text{ sqm}$. Total = 5.79 sqm . Wastage 5% = 0.29 sqm . Total = 6.08 sq . Cubical content- $6.08 \times 0.038 = 0.231 \text{ cum} = 231 \text{ dm}^3$ Qty taken for cost using once = $231/8 = 28.875 \text{ cudm}$				
1198	Second class kail wood in planks (ii) Batten 100mm x 75mm $4 \times 1.30 \times 0.100 \times 0.075 = 0.039 \text{ cum} = 39 \text{ dm}^3$ Qty taken for cost using once = $39/8 = 4.875 \text{ cudm}$	10 cudm	2.8875	260.00	750.75
1197	Second class kail wood in scantling $2 \times 4 \times 0.80 = 6.40 \text{ m}$	10 cudm	0.4875	260.00	126.75
302	Qty taken for cost using once = $6.4/8 = 0.8 \text{ m}$ Safeda ballies 125 mm diameter Planks = 0.231 cum . Battens = 0.039 cum . Ballies $6.4 \times 3.142/4 \times (0.125)^2 = 0.079 \text{ cum}$. Total = 0.349 cum . Qty taken for cost using once = $0.349/8 = 0.04363 \text{ cum}$	metre	0.80	40.00	32.00
2204	Carriage of Timber LABOUR For assembling, erection, dismantling and cleaning	cum	0.04363	121.29	5.29
0015	Carpenter 2nd class	day	1.75	374.50	655.38
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				1923.24 W
	Add 1 % Water charges on "W"				19.23
	TOTAL				1942.47 X
	Add GST (multiplying factor 0.1405) on "X"				272.92
	TOTAL				2215.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				332.31
	Total				2547.69 Z
	Add Cess @ 1% on "Z"				25.48
	Cost of 5.79 sqm.				2573.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per sqm.				444.42
	Say				444.40
5.9.8	Spiral staircases (including landing)				
	Detail of cost for 6.28 sqm (For 10 steps)				
	Treads				
	10x0.70x0.20(av.) = 1.40 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: : RCC	sqm	1.40	387.15	542.01
	Riser				
	2x10x0.70x0.23 = 3.22 sqm				
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	3.22	411.15	1323.90
	Newal Post (Column)				
	10x3.14x0.232 = 1.66 sqm				
5.9.7	Rate as per item no 5.9.7 of SH: RCC	sqm	1.66	444.40	737.70
	Cost of 6.28 sqm				2603.61
	Cost of 1 sqm				414.59
	Say				414.60
5.9.9	Arches, domes, vaults up to 6 m span				
	Details of cost for a semicircular arch 3.6m clear span and 3.6m long.				
	Area of centering = $22 \times 1.8 \times 3.6 = 20.37 \text{sqm}$.				
	MATERIAL				
	Frame work in 2nd class kail wood Tie-				
	1x3.6x0.15x0.20 = 0.108cum. Struts-				
	3x1.8x0.10x0.10 = 0.054cum				
	Struts-2x2.55x0.10x0.10=0.051cum.				
	Ribs-4x1.38x0.075x0.075=0.031cum.				
	Total = 0.244 cum. Quantity for 7 such frames				
	7x0.244 = 1.708cum. Strips 5cmx2.5cm =				
	7.5cm center to center				
	$5.66/0.075 \times 0.05 \times 0.025 \times 3.6 = 0.342 \text{cum}$. Total				
	= 2.050 cum = 2050 cudm				
	Qty taken for cost using once = $2050/8 =$				
	256.25 cudm				
1197	Second class kail wood in scantling	10 cudm	25.625	260.00	6662.50
	Safeda ballies 125 mm dia				
	7x4x3.6= 100.8m				
302	Safeda ballies 125 mm diameter G.I. Plain sheet 20.37 sqm m 116kg.	metre	12.600	40.00	504.00
	Or 1.16 quintal				
	Qty taken for cost using once = $1.16/8 = 0.145$				
	qtl				
992	Galvanised steel plain sheets	quintal	0.145	5000.00	725.00
	Carriage-				
	Kail wood = 2.05cum.				
	Ballies - $100.8 \times (0.125)^2 / 4 \times 3.142 = 1.24 \text{cum}$.				
	Total = 3.29 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost using once = $3.29/8 = 0.4112$ cum				
2204	Carriage of Timber	cum	0.4112	121.29	49.88
	G.I. Sheet = 0.116 t				
	Qty taken for cost using once = $0.116/8 = 0.0145$ t				
2302	Carriage of G.I.sheet and accessories	tonne	0.0145	94.34	1.37
	LABOUR				
0015	Carpenter 2nd class	day	16.00	374.50	5992.00
0017	Beldar	day	13.00	320.83	4170.79
9999	Sundries	L.S.	11.70	2.00	23.40
	TOTAL				18128.93 W
	Add 1 % Water charges on "W"				181.29
	TOTAL				18310.22 X
	Add GST (multiplying factor 0.1405) on "X"				2572.59
	TOTAL				20882.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				3132.42
	Total				24015.23 Z
	Add Cess @ 1% on "Z"				240.15
	Cost of 20.37sqm.				24255.38
	Cost per sqm.				1190.74
	Say				1190.75

5.9.10 Extra for arches, domes, vaults exceeding 6 m span

Details of cost for 33.31 sqm

Centering and shuttering for arches and carved surface exceeding 6m in span

(an average of 8m)

Radius R = 5m $2R-2 = 8$

$\tan^{-1}(4/3)=53.28^\circ$

$2 \times 53.28^\circ = 106^\circ$

Surface area = $2 \times 22/7 \times 5 \times 3.6 \times 106/360$
= 33.31sqm.

Arc=9.25m

MATERIAL

Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144$ cum Struts-

$2 \times 2.5 \times 0.1 \times 0.1 = 0.050$ cum.

Struts- $2 \times 1.77 \times 0.1 \times 0.1 = 0.035$ cum. Ribs-

$6 \times 1.54 \times 0.23 \times 0.1 = 0.213$ cum.

Struts- $2 \times 1.72 \times 0.1 \times 0.1 = 0.034$ cum.

Total=0.476 cum.

For four such frames = $0.476 \times 4 = 1.904$ cum.

laggings- $75 \times 3.6 \times 0.125 \times 0.075 = 2.531$ cum. Tie-

$2 \times 3.6 \times 0.225 \times 0.038 = 0.062$ cum.

Brace- $3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Brace-3x4x3.8x0.225x0.038=0.390 Sleepers-4x3.6x0.20x0.15=0.432 Sleepers-2x4x3.6x0.175x0.075=0.378 Vertical post-4x4x3.6x0.15x0.15=1.296 Total =7.103cum. or 7103 cudm Qty taken 1/8th of qty for cost using once =7.103/8 = cum = 887.9 Cudm				
1197	Second class kail wood in scantling	10 cudm	88.79	260.00	23085.40
2204	Carriage of Timber Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @ 0.25cm each = 2m Total = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.08775	cum	0.8879	121.29	107.69
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.160x.254x 1.58=64.21 kg=0.64q. Qty taken 1/8th of qty for cost using once =0.64/8 = 0.08	quintal	0.0878	4120.00	361.74
1034	Bolts and nuts upto 300 mm in length	quintal	0.08	4800.00	384.00
2202	Carriage of G.I.sheet and accessories Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.01677 t say 0.0168 t LABOUR	tonne	0.0168	106.13	1.78
0015	Carpenter 2nd class	day	28.00	374.50	10486.00
0017	Beldar	day	24.00	320.83	7699.92
9999	Sundries	L.S.	134.55	2.00	269.10
	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span				
5.9.9	Rate as per item no 5.9.9 of SH : RCC	sqm	-33.31	1190.75	(39663.90) A
	TOTAL				2731.74 W
	Add 1 % Water charges on "W-A"		42395.63		423.96
	TOTAL				3155.69 X
	Add GST (multiplying factor 0.1405) on "X-A"		42819.59		6016.15
	TOTAL				9171.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		48835.74		7325.36
	Total				16497.21 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		56161.10		561.61
	Cost of 33.31sqm.				17058.82
	Cost per sqm of soffit area				512.12
	Say				512.10
5.9.11	Chimneys and shafts				
	Details for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm. MATERIAL				
	Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	860.00	438.60
7327	100 mm channel shoulder 2.5 m long 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	910.00	154.70
7328	Double clip (bridge clip) 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	76.00	38.76
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	59.00	15.05
7330	M.S. tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	215.00	146.20
9999	Nut & Bolts Qty taken for cost of using once = 1300x0.85/40 = 27.63	L.S.	27.63	2.00	55.26
9977	Carriage LABOUR	L.S.	78.00	2.00	156.00
0019	Fitter (grade 1)	day	3.50	476.00	1666.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Shuttering oil	L.S.	78.00	2.00	156.00
9999	Sundries	L.S.	52.00	2.00	104.00
	TOTAL				4855.55 W
	Add 1 % Water charges on "W"				48.56
	TOTAL				4904.10 X
	Add GST (multiplying factor 0.1405) on "X"				689.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5593.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				838.97
	Total				6432.10 Z
	Add Cess @ 1% on "Z"				64.32
	Cost for 15.8 sqm.				6496.42
	Cost per sqm.				411.17
	Say				411.15
5.9.12	Well steining				
	Details of cost 26.39 sqm.				
	Surface area				
	Outside area = $22/7 \times 4.40 \times 1.00 = 13.82$ sqm =				
	26.39 sqm				
	MATERIAL				
	Assuming that the timber will become unserviceable after being used 8 times Planks 38 mm (Second class kail wood) $26.39 \times 0.038 = 1.00$ cum.				
	Wastage 20% = 0.20cum.				
	Total = 1.20cum. or 1200 cudm				
	Qty for cost using once = $1200/8 = 150$ cudm				
1198	Second class kail wood in planks	10 cudm	15.00	260.00	3900.00
	2nd class kail wood battens Inside = $2 \times 25 \times 0.50 \times 0.075 \times 0.038 = 0.0712$ cum.				
	Outside = $2 \times 28 \times 0.50 \times 0.075 \times 0.038 = 0.0798$ cum.				
	Total = 0.1510cum.				
	Wastage 5% = 0.0076 cum.				
	= 0.1586 cum = 158.60 cudm				
	Qty for cost using once = $0.1586/8 = 0.0198$ cudm				
1197	Second class kail wood in scantling	10 cudm	0.00198	260.00	0.51
302	Safeda ballies 125 mm diameter	metre	6.625	40.00	265.00
	Inside: $25 \times 1.00 = 25.00$ m				4165.51
	Outside: $28 \times 1.00 = 28.00$ m				
	Total = 53.00m				
	Qty for cost using once = $53/8 = 6.625$ m				
	TOTAL				
	Add for carriage, labour for erectio ad dismentalig etc @ 1/6 (16.667%) of cost of material				694.39
	TOTAL				4859.91 W
	Add 1 % Water charges on "W"				48.60
	TOTAL				4908.51 X
	Add GST (multiplying factor 0.1405) on "X"				689.64
	TOTAL				5598.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				839.72
	Total				6437.87 Z
	Add Cess @ 1% on "Z"				64.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 26.39sqm.				6502.25
	Cost per sqm.				246.39
	Say				246.40
5.9.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards				
	Details of cost for fins 4 vertical fins 4 metre high and at 1 metre centres, with two horizontal fins all projecting 60cm from face of wall and 5 cm thick.				
	i.e. $(4 \times 4 \times 1.25) + (2 \times 3 \times 0.65) = 23.90 \text{sqm} + 5\%$				
	wastage = 25.10 sqm. MATERIAL				
1198	Second class kail wood in planks 38mm thick $4 \times 4 \times 1.25 = 20.00$ $2 \times 3 \times 0.65 = 3.90$ Total = 23.90 Wastage @ 5% = 1.20 Total = 25.10sqm. $25.10 \times 0.038 = .954 \text{ cum}$ or 954 cudm Qty for cost using once = $954/8 = 119.25 \text{ cudm}$	10 cudm	11.925	260.00	3100.50
1197	Second class kail wood in scantling $4 \times 2 \times 5 \times 0.60 \times 0.075 \times 0.050 = 0.090$ $3 \times 2 \times 5 \times 1.00 \times 0.075 \times 0.050 = 0.112$ $2 \times 6 \times 0.60 \times 0.075 \times 0.100 = 0.054 = 0.256 \text{ Cum.}$ Wastage® 5% = 0.013 cum = 0.269 cum = 269 cudm Qty for cost using once = $269/8 = 33.625 \text{ cudm}$	10 cudm	3.3625	260.00	874.25
302	Safeda ballies 125 mm diameter $2 \times 2 \times 6 \times 4.00 = 96 \text{m}$ Wastage @ 5% = 4.8m Total = 100.8 m Qty for cost using once = $100.8/8 = 12.6 \text{ m}$	metre	12.60	40.00	504.00
2204	Carriage of Timber Planks = 0.954 Battens = 0.269 Bailies $100.8 \times (0.125)^2 / 4 \times 3.142 = 1.238 \text{cum.}$ Total = 2.461 cum Qty for cost using once = $2.461/8 = 0.3076 \text{ cum}$	cum	0.3076	121.29	37.31
	LABOUR				
	For assembling, erection, dismantling and cleaning				
0015	Carpenter 2nd class	day	11.00	374.50	4119.50
0017	Beldar	day	11.00	320.83	3529.13
9999	Sundries	L.S.	80.73	2.00	161.46
	TOTAL				12326.15 W
	Add 1 % Water charges on "W"				123.26
	TOTAL				12449.41 X
	Add GST (multiplying factor 0.1405) on "X"				1749.14
	TOTAL				14198.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				2129.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				16328.34 Z
	Add Cess @ 1% on "Z"				163.28
	Cost for 23.90 sqm.				16491.62
	Cost per sqm.				690.03
	Say				690.05
5.9.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)				
5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like				
	Details of cost for footing size				
	2.7mx2.7mx1.00m				
	Contact area = 10.8 sqm.				
	MATERIAL				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.34	860.00	292.40
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	240.00	20.40
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
7327	100 mm channel shoulder 2.5 m long	each	0.17	910.00	154.70
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7328	Double clip (bridge clip)	each	0.34	76.00	25.84
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7329	Single clip	each	0.17	59.00	10.03
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7330	M.S. tube 40 mm dia	metre	0.2295	215.00	49.34
	4x2.7m = 10.8m				
	Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$				
9999	Assembly nuts & bolts	L.S.	22.10	2.00	44.20
	Qty taken for cost of using once = $1040 \times 0.85 / 40 = 22.10$				
9977	Carriage	L.S.	78.00	2.00	156.00
	LABOUR				
0019	Fitter (grade 1)	day	0.75	476.00	357.00
0017	Beldar	day	1.50	320.83	481.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Shuttering oil	L.S.	52.00	2.00	104.00
9999	Sundries	L.S.	26.00	2.00	52.00
	TOTAL				1747.16 W
	Add 1 % Water charges on "W"				17.47
	TOTAL				1764.63 X
	Add GST (multiplying factor 0.1405) on "X"				247.93
	TOTAL				2012.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				301.88
	Total				2314.44 Z
	Add Cess @ 1% on "Z"				23.14
	Cost for 10.8 sqm.				2337.59
	Cost per sqm.				216.44
	Say				216.45
5.9.16	Edges of slabs and breaks in floors and walls				
5.9.16.1	Under 20 cm wide				
	Details of cost for a 3mx3m slab 15cms thick 12m edge Length MATERIAL Assuming that the timber will become unserviceable after being used 8 times.				
1198	Second class kail wood in planks (i) Planks 30mm thick (2nd class Kail wood or equivalent local soft wood) 4x3x0.15x0.030=0.054cum Wastage @5% = 0.003 cum. Total = 0.057 cum 57 cudm Qty taken for cost of using once = 57/8 =7.125 cudm	10 cudm	0.7125	260.00	185.25
1197	Second class kail wood in scantling (ii) Battens 75mmx100mm (2nd class Kail wood) Horizontal 2x4x0.075x0.1x0.5=0.030 Horizontal 2x4x0.075x0.1x1.5=0.090 (iii) Vertical battens 16x0.15x0.075x0.030m = 0.0054 (iv) Struts 16x0.25x0.075x0.075=0.0225 Total = 0.1479 Wastage @5% = 0.0074 Total = 0.1553 cum = 155 cudm Qty taken for cost ef using once = 155/8 =19.375 cudm	10 cudm	1.9375	260.00	503.75
2204	Carriage of Timber Planks = 0.057 cum. Battens = 0.155 cum. Total = 0.212 cum.	cum	0.0265	121.29	3.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost of using once = $0.212/8 = 0.0265 \text{ cum}$ LABOUR For assembling erection dismantling & cleaning.				
0015	Carpenter 2nd class	day	0.81	374.50	303.35
0017	Beldar	day	0.54	320.83	173.25
9999	Sundries	L.S.	5.20	2.00	10.40
	TOTAL				1179.21 W
	Add 1 % Water charges on "W"				11.79
	TOTAL				1191.00 X
	Add GST (multiplying factor 0.1405) on "X"				167.34
	TOTAL				1358.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				203.75
	Total				1562.09 Z
	Add Cess @ 1% on "Z"				15.62
	Cost of 12 metres				1577.71
	Cost of one meter				131.48
	Say				131.50

5.9.16.2 Above 20 cm wide

	Details of cost for 4mx4xslab 25cms thick 16 metre edge length Shuttering surface area = $16 \times 0.25 = 4 \text{ sqm}$ MATERIAL				
1198	Second class kail wood in planks (i) Planks 38mm thick $4 \times 4 \times 0.25 \times 0.038 = 0.152$ Wastage @ 5% = 0.008 Total = 0.160 cum. = 160 cudm Qty taken for cost of using once = $160/8 = 20 \text{ cudm}$	10 cudm	2.00	260.00	520.00
1197	Second class kail wood in scantling (ii) Battens $6 \times 2 \times 0.6 \times 0.075 \times 0.100 = 0.054$ $5 \times 2 \times 1.5 \times 0.075 \times 0.100 = 0.113$ Total = 0.167 Wastage @ 5% = 0.008 Total = 0.175 cum. = 175 cudm Qty taken for cost of using once = $175/8 = 21.88 \text{ cudm}$	10 cudm	2.188	260.00	568.88
2204	Carriage of Timber Planks = 0.16 cum. Battens = 0.175 cum. Total = 0.335 cum. Qty taken for cost of using once = $0.335/8 = 0.0419 \text{ cum}$	cum	0.0419	121.29	5.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	For assembling erection dismantling & cleaning.				
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	0.75	320.83	240.62
9999	Sundries	L.S.	6.50	2.00	13.00
	TOTAL				1722.08 W
	Add 1 % Water charges on "W"				17.22
	TOTAL				1739.31 X
	Add GST (multiplying factor 0.1405) on "X"				244.37
	TOTAL				1983.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				297.55
	Total				2281.23 Z
	Add Cess @ 1% on "Z"				22.81
	Cost of 4 sqm.				2304.04
	Cost of 1 sqm.				576.01
	Say				576.00
5.9.17	Cornices and mouldings				
	Details of cost for 10m long moulding 10cm projection, 20cm depth and 40cm girth Area in contact 10x0.4 = 4.0 sqm.				
	MATERIAL				
	Assuming that the timber will become unserviceable after being used 8 times.				
1198	Second class kail wood in planks (I) Planking 30mm thick = 4sqm. Extra & Wastage 20% = 0.8 sqm. Total = 4.8 sqm. 4.8x0.038 = 0.182 cum = 182 cudm Qty taken for cost using once = 182/8 = 22.75 cudm	10 cudm	2.275	260.00	591.50
1197	Second class kail wood in scantling (ii) Battens-Joining to Planking 1x10x0.1x0.075 = 0.075 cum. From bottom shuttering 10x1.5x0.1x0.075 = 0.113 cum. Wales 10x0.4mx0.1x0.075 = 0.030 cum. Total = 0.218 cum = 218 cudm Qty taken for cost using once = 218/8 = 27.25 cudm	10 cudm	2.725	260.00	708.50
2447	Hollock ballies 125 mm diameter (iii) Ballies 125 mm dia. Slant 10x0.3 = 3 m ver. 6x3.5 = 21.0 m Total = 24.0 m Wastage @ 5% = 1.2 m	metre	3.15	35.00	110.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 25.2 m Qty taken for cost using once = $25.2/8 = 3.15\text{m}$				
2204	Carriage of Timber Planking = 0.188 cum. Battens & Wales = 0.218 cum. Ballies $25.2 \times 22/7 \times (0.125)/4 = 0.310\text{ cum.}$ Total = 0.710 cum. Qty taken for cost using once = $0.71/8 = 0.0888\text{ cum}$ LABOUR Labour for assembling, erection, dismantling & cleaning	cum	0.0888	121.29	10.77
0015	Carpenter 2nd class	day	0.63	374.50	235.94
0017	Beldar	day	0.63	320.83	202.12
9999	Sundries	L.S.	6.50	2.00	13.00
	TOTAL				1872.08 W
	Add 1 % Water charges on "W"				18.72
	TOTAL				1890.80 X
	Add GST (multiplying factor 0.1405) on "X"				265.66
	TOTAL				2156.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				323.47
	Total				2479.93 Z
	Add Cess @ 1% on "Z"				24.80
	Cost of 4 sqm.				2504.72
	Cost of 1 sqm.				626.18
	Say				626.20
5.9.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like				
	Details of cost for a bracket 1.20m projected Front area $0.50 \times 0.60\text{m}$ End area $0.50 \times 0.75\text{m}$ Area in contact with concrete $2 \times \{(0.60 \times 0.75)/2 \times 1.2\} = 1.62\text{ sqm.}$ Front $0.5 \times 0.6 = 0.30\text{ sqm.}$ Bottom $0.5 \times 1.21 = 0.605\text{ sqm.}$ Total = 2.525 sqm. MATERIAL Assuming that the timber will become unserviceable after being used 8 times.				
1198	Second class kail wood in planks	10	1.3375	260.00	347.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Timber IInd class kail wood or equivalent local soft wood (I) Plank 30mm thick. Sides $2\{(0.60.75)/2 \times 1.238\} = 1.6713 \text{sqm}$ Battens $0.576 \times 1.21 = 0.697$ Front $0.5 \times 0.638 = 0.319$ Total = 2.687 sqm. Cubical contents $2.687 \times 0.038 = 0.102 \text{ cum.}$ Wastage @ 5% = 0.005 cum. Total = 0.107 cum. Qty taken for cost using once = $107/8 = 13.375 \text{ cudm}$	cudm			
1197	Second class kail wood in scantling (ii) Battens- 0.05×0.05 $2 \times 1.238 = 2.476 \text{m}$ $2 \times 1.21 = 2.42 \text{m}$ $2 \times 0.688 = 1.376 \text{m}$ $2 \times 0.838 = 1.676 \text{m}$ $3 \times 0.5 = 1.50 \text{m}$ Total = 9.448m Cubical contents $9.448 \times 0.05 \times 0.05 = 0.024 \text{ cum.}$ Wastage 5% = 0.0012 cum. Total = 0.0252 cum = 25.2 cudm Qty taken for cost using once = $25.2/8 = 3.15 \text{ cudm}$	10 cudm	0.315	260.00	81.90
2447	Hollock ballies 125 mm diameter (iii) Ballies 125mm dia. $1 \times 2.5 = 2.50 \text{m}$ $1 \times 2.65 = 2.65 \text{m}$ Total = 5.15 m Wastage 5% = 0.26m Total = 5.41 m Qty taken for cost using once = $5.41/8 = 0.6763 \text{ m}$	metre	0.6763	35.00	23.67
2204	Carriage of Timber Planks = 0.107 cum. Battens = 0.0252 cum. Ballies $5.41 \times 22/7 \times (0.125^2/4) = 0.066 \text{ cum.}$ Total = 0.198 cum Qty taken for cost using once = $0.198/8 = 0.0248 \text{ cudm}$	cum	0.0248	121.29	3.01
0015	LABOUR Labour for assembling, erection, dismantling & cleaning Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	0.80	320.83	256.66
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				1026.89 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				10.27
	TOTAL				1037.16 X
	Add GST (multiplying factor 0.1405) on "X"				145.72
	TOTAL				1182.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				177.43
	Total				1360.32 Z
	Add Cess @ 1% on "Z"				13.60
	Cost of 2.525 sqm.				1373.92
	Cost of 1 sqm.				544.13
	Say				544.15

5.9.19 Weather shade, Chajjas, corbels etc., including edges

Details of cost for a weather shade

Area of centring and shuttering = 0.954 sqm

For a weather shade over a window of size
1.5mx1.2m

Size of weather shade 1.80x0.45m

Thickness at front = 0.05m

Thickness at fixed edge = 0.07m

Area in contact with concrete Bottom

1x0.45x1.80 = 0.810

1x0.05x1.80 = 0.094 2x0.45x0.06 =

0.027 Total = 0.954 sqm.

MATERIAL

Assuming that the timber will become
unserviceable after being used 8 times.

1198	Second class kail wood in planks (i) Planking 38mm thick.	10 cudm	0.5125	260.00	133.25

Bottom 1x1.876x0.488 = 0.915 sqm.

1x1.876x0.05 = 0.94 sqm.

2x0.45x0.06 = 0.027 sqm.

Total = 1.036 sqm.

Add 5% wastage = 0.052 sqm.

Total = 1.088 sqm.

Cubic contains

1.088x0.038 = 0.041 cum = 41 cudm

Qty taken for cost using once = 41/8 =

5.125 cudm

1197	Second class kail wood in scantling (ii) Battens-	10 cudm	0.15	260.00	39.00

2x0.60x0.075x0.10 = 0.009

Ends with bearing center

1x0.45x0.075x0.10 = 0.003

Total = 0.012 cum = 12 cudm

Qty taken for cost using once = 12/8 = 1.50
cudm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2447	Hollock ballies 125 mm diameter (iii) Ballies 125mm dia. 2x2.1 = 4.2m Wastage 5% = 0.21m Total = 4.41 m Qty taken for cost using once = 4.41/8 = 0.5513 m Carriage:	metre	0.5513	35.00	19.30
2204	Carriage of Timber Plank = 0.041 cum. Battens = 0.012 cum. Ballies 4.41x22/7x(0.125) ² /4 = 0.054 cum. Total = 0.107 cum Qty taken for cost using once = 0.107/8 = 0.01338 cum LABOUR Labour for assembling, erection, dismantling & cleaning	cum	0.01338	121.29	1.62
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	5.20	2.00	10.40
	TOTAL				396.13 W
	Add 1 % Water charges on "W"				3.96
	TOTAL				400.09 X
	Add GST (multiplying factor 0.1405) on "X"				56.21
	TOTAL				456.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.44
	Total				524.74 Z
	Add Cess @ 1% on "Z"				5.25
	Cost for 0.954 sqm.				529.99
	Cost of 1 sqm.				555.55
	Say				555.55
5.9.20	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick Detail of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m MATERIAL Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
10.1	Rate as per Item No.10.1 of SH:Steel Work Plates (size 0.75 x 0.60)	kg	5.425	77.55	420.72 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Angle 40x40x5mm 2x0.75 = 1.50 m 2x0.60 = 1.20 m = 2.70 m @ 3.00 kg/m = 8.1 kg Weight of one plate = 8.10kg Add for wastage @ 5% = 0.41 kg Total = 8.51kg Total weight of all plates = 5x6x8.51 = 255.30 kg. Qty taken for cost using once.= 255.30x0.85/40 = 5.425 kg Welding length = (30x32)/40=24 cm				
1215	Welding by electric plant	cm	24.00	2.00	48.00
8659	Water proof ply 12mm thick. 1x4.50x3.00=13.50sqm Add wastage @ 5% =0.68sqm Total 14.18sqm Qty taken for cost using once 14.18/8 = 1.77sqm	sqm	1.77	517.00	915.09
0015	Carpenter 2nd class	day	0.125	374.50	46.81
0017	Beldar	day	0.125	320.83	40.10
1034	Bolts and nuts upto 300 mm in length	quintal	0.0021	4800.00	10.08
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.10625	1480.00	157.25
	Qty taken for cost using once = 5x0.85/40 = 0.10625				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	955.00	121.76
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	12.63	2.00	25.26
9977	Carriage	L.S.	130.00	2.00	260.00
	LABOUR				0.00
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Shuttering oil	L.S.	78.00	2.00	156.00
9999	Sundries	L.S.	52.00	2.00	104.00
	TOTAL				5658.06 W
	Add 1 % Water charges on "W-A"	5237.34			52.37
	TOTAL				5710.43 X
	Add GST (multiplying factor 0.1405) on "X-A"	5289.71			743.20
	TOTAL				6453.64 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6032.92			904.94
	Total				7358.57 Z
	Add Cess @ 1% on "Z-A"	6937.85			69.38
	Cost for 13.50 sqm.				7427.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per sqm.				550.22
	Say				550.20

5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick

Details of cost for a beam of 6 m clear span,
0.50 m deep 0.30 m wide and height

3.5 m from floor

Cubical contents

$6.60 \times 0.5 \times 0.3 = 0.99 \text{ cum}$

$1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$

MATERIAL

Assuming shuttering will become
unserviceable after use of 8 times Add
maintenance charges @ 10% of cost of
Less salvage value of material after full use
@ 25% of cost of material

10.1	Rate as per Item No.10.1 of SH:Steel Work	kg	3.72	77.55	288.49 A
	Steel plates for side and bottom (plate size 1.20 x 0.50m)				
	Angle 40x40x5mm (both sides) & bottom				
	$2 \times (2 \times 1.20) = 4.80 + (2 \times 1.2) = 7.20 \text{m}$				
	$2 \times (3 \times 0.50) = 3.00 + (3 \times 0.30) = 3.9 \text{m}$				
	11.10 m @ 3.00 kg/m = 33.30 kg Weight of one plate = 11.70 kg.				
	Add for wastage = 1.67kg.				
	Total = 34.97 kg.				
	Total weight of all plates				
	$5 \times 34.97 = 174.85 \text{ kg}$				
	Qty taken for cost of using once =				
	$174.85 \times 0.85 / 40 = 3.72 \text{ kg}$				
	Welding length $480 / 40 = 12 \text{ cm}$				
1215	Welding by electric plant	cm	12.00	2.00	24.00
8659	Water proof ply 12mm thick. $1 \times 1.30 \times 6.00 =$ 7.80 sqm	sqm	1.02	517.00	527.34
	Add 5% wastage = 0.39 sqm				
	Total = 8.19 sqm				
	Qty taken for cost of using once $8.19 / 8 \text{ sqm} =$ 1.02 sqm				
0015	Carpenter 2nd class	day	0.125	374.50	46.81
0017	Beldar	day	0.125	320.83	40.10
1034	Bolts and nuts upto 300 mm in length	quintal	0.0021	4800.00	10.08
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	955.00	121.76
	Qty taken for cost of using once = $6 \times 0.85 / 40$ = 0.1275 m				
7344	Beam clamp 300-380 mm (450-1070 mm)	each	0.1063	355.00	37.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost of using once = 5x0.85/40 = 0.1063m	set			
9999	Assembly nut & bolts etc.	L.S.	11.05	2.00	22.10
9977	Carriage	L.S.	78.00	2.00	156.00
	LABOUR				
0019	Fitter (grade 1)	day	1.25	476.00	595.00
0017	Beldar	day	2.50	320.83	802.08
9999	Shuttering oil	L.S.	39.00	2.00	78.00
9999	Sundries, paper tape etc.	L.S.	26.00	2.00	52.00
	TOTAL				2801.50 W
	Add 1 % Water charges on "W-A"	2513.01			25.13
	TOTAL				2826.63 X
	Add GST (multiplying factor 0.1405) on "X-A"	2538.14			356.61
	TOTAL				3183.24 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2894.75			434.21
	Total				3617.45 Z
	Add Cess @ 1% on "Z-A"	3328.96			33.29
	Cost for 7.80 sqm.				3650.74
	Cost per sqm.				468.04
	Say				468.05
5.10	Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-charge.				
5.10.1	12 mm dia. & 100 mm length				
	Details of cost for wall length 7.90mx 1m (24 set)				
	MATERIAL				
7320	Tie bolt 12 mm dia 100 mm length	each	24.00	38.00	912.00
7324	Spring coil 12 mm	each	48.00	15.00	720.00
7325	Plastic cone 12 mm dia	each	48.00	17.00	816.00
9977	Carriage:	L.S.	13.00	2.00	26.00
	LABOUR				
9999	Sundries	L.S.	26.00	2.00	52.00
	TOTAL				2526.00 W
	Add 1 % Water charges on "W"				25.26
	TOTAL				2551.26 X
	Add GST (multiplying factor 0.1405) on "X"				358.45
	TOTAL				2909.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				436.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3346.17 Z
	Add Cess @ 1% on "Z"				33.46
	Cost for 24 sets				3379.63
	Cost of 1 each set				140.82
	Say				140.80

5.10.2 12 mm dia. & 150 mm length

Details of cost for wall length 7.90mx1m
(24 set)

MATERIAL

7321	Tie bolt 12 mm dia 150 mm length	each	24.00	48.00	1152.00
7324	Spring coil 12 mm	each	48.00	15.00	720.00
7325	Plastic cone 12 mm dia	each	48.00	17.00	816.00
9977	Carriage:	L.S.	13.00	2.00	26.00

LABOUR

9999	Sundries	L.S.	26.00	2.00	52.00
	TOTAL				2766.00 W

Add 1 % Water charges on "W"

27.66

TOTAL

2793.66 X

Add GST (multiplying factor 0.1405) on "X"

392.51

TOTAL

3186.17 Y

Add 15 % Contractor's profit and overheads on "Y"

477.93

Total

3664.09 Z

Add Cess @ 1% on "Z"

36.64

Cost for 24 sets

3700.74

Cost of 1 each set

154.20

Say

154.20

5.10.3 20 mm dia. & 150 mm length

Details of cost for wall length 7.90mx1m
(24 set)

MATERIAL

7322	Tie bolt 20 mm dia 150 mm length	each	24.00	57.00	1368.00
7324	Spring coil 12 mm	each	48.00	15.00	720.00
7325	Plastic cone 12 mm dia	each	48.00	17.00	816.00
9977	Carriage:	L.S.	13.00	2.00	26.00

LABOUR

9999	Sundries	L.S.	26.00	2.00	52.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2982.00 W
	Add 1 % Water charges on "W"				29.82
	TOTAL				3011.82 X
	Add GST (multiplying factor 0.1405) on "X"				423.16
	TOTAL				3434.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				515.25
	Total				3950.23 Z
	Add Cess @ 1% on "Z"				39.50
	Cost for 24 sets				3989.73
	Cost of 1 each set				166.24
	Say				166.25
5.10.4	20 mm dia.& 225 mm length				
	Details of cost for wall length 7.90mx1m				
	(24 set)				
	MATERIAL				
7323	Tie bolt 20 mm dia 225 mm length	each	24.00	67.00	1608.00
7324	Spring coil 12 mm	each	48.00	15.00	720.00
7325	Plastic cone 12 mm dia	each	48.00	17.00	816.00
9977	Carriage:	L.S.	13.00	2.00	26.00
	LABOUR				
9999	Sundries	L.S.	26.00	2.00	52.00
	TOTAL				3222.00 W
	Add 1 % Water charges on "W"				32.22
	TOTAL				3254.22 X
	Add GST (multiplying factor 0.1405) on "X"				457.22
	TOTAL				3711.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				556.72
	Total				4268.15 Z
	Add Cess @ 1% on "Z"				42.68
	Cost for 24 sets				4310.84
	Cost of 1 each set				179.62
	Say				179.60
5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)				
	Details of cost for a Room of size 6mx4.8m = 28.8 sqm.				
	MATERIAL				
	Assuming that shuttering material will become unserviceable after use 40 times				
	Less salvage value of material after full use @ 25% of cost material				
	Add 10% of cost of material for maintenance				
7345	Prop 4 m	each	0.4463	910.00	406.13
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
	Deduct the rate of 3m prop				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	-0.4463	955.00	(426.22)
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
7330	M.S. tube 40 mm dia	metre	1.0965	215.00	235.75
	Bracing				
	MS tube 40mm				
	$7 \times 4.8\text{m} = 33.60\text{m}$				
	$3 \times 6.0\text{m} = 18.00\text{m}$				
	Total = 51.60m				
	Qty taken for cost using once = $51.6 \times 0.85/40 = 1.0965$				
7346	Double coupler (40x40)	each	0.4463	46.00	20.53
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
9977	Carriage	L.S.	65.00	2.00	130.00
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0017	Beldar	day	6.00	320.83	1924.98
9999	Sundries	L.S.	130.00	2.00	260.00
	TOTAL				3979.17 W
	Add 1 % Water charges on "W"				39.79
	TOTAL				4018.97 X
	Add GST (multiplying factor 0.1405) on "X"				564.66
	TOTAL				4583.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				687.54
	Total				5271.17 Z
	Add Cess @ 1% on "Z"				52.71
	Cost for 28.8 sqm.				5323.89
	Cost per sqm.				184.86
	Say				184.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size). Details of cost for 1 cum. MATERIAL Cement concrete 1:1½:3 in string or lacing course etc Rate as per Item No.4.5.1 of SH:CONCRETE WORK (NB : Rate has been taken including cost of fixing in CM 1:2 as precast members are to be fixed in CM 1:2)(1 cement : 2 coarse sand) as per CPWD specifications) LABOUR Extra labour for laying CC in RCC work				
4.5.1		cum	1.00	7306.30	7306.30 A
0017	Beldar	day	0.10	320.83	32.08
0011	Bhisti	day	0.20	320.83	64.17
0023	Mason (brick layer) 1st class	day	0.04	476.00	19.04
0024	Mason (brick layer) 2nd class	day	0.04	374.50	14.98
0028	Mate	day	0.04	320.83	12.83
	TOTAL				7449.40 W
	Add 1 % Water charges on "W-A"	143.10			1.43
	TOTAL				7450.83 X
	Add GST (multiplying factor 0.1405) on "X-A"	144.53			20.31
	TOTAL				7471.14 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	164.84			24.73
	Total				7495.86 Z
	Add Cess @ 1% on "Z-A"	189.57			1.90
	Cost for 1 cum.				7497.76
	Say				7497.75

5.13 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor five level, including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).

Details of cost for a lintel :

Qty = 0.054 cum

MATERIAL

1.5m clear span = 1.8x0.20x0.15 = 0.054 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement Concrete 1:1½:3				
4.2.2	Rate as per Item No.4.2.2 of SH: Concrete Work	cum	0.054	7529.05	406.57 A
	Centring and shuttering				
4.3.1	Rate as per item no. 4.3.1 of SH: Concrete work	sqm	0.60	216.45	129.87 A
	LABOUR				
0017	Beldar	day	0.005	320.83	1.60
0011	Bhisti	day	0.01	320.83	3.21
0023	Mason (brick layer) 1st class	day	0.002	476.00	0.95
0024	Mason (brick layer) 2nd class	day	0.002	374.50	0.75
0028	Mate	day	0.002	320.83	0.64
	TOTAL				543.59 W
	Add 1 % Water charges on "W-A"	7.16			0.07
	TOTAL				543.67 X
	Add GST (multiplying factor 0.1405) on "X-A"	7.23			1.02
	TOTAL				544.68 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8.24			1.24
	Total				545.92 Z
	Add Cess @ 1% on "Z-A"	9.48			0.09
	Cost for 0.054 cum.				546.01
	Cost per cum				10111.33
	Say				10111.35
5.14	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc, including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but, excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for				
	1mx0.20x0.15=0.03 cum				
	MATERIAL				
	Cement concrete 1:1½:3				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.03	6376.30	191.29 A
	Extra labour for lifting				
	0.45 x 0.03 x 2.5 = 0.034				
0018	Coolie	day	0.034	320.83	10.91
9999	Mortar and labour for hoisting and for fixing	L.S.	2.73	2.00	5.46
	Centring and shuttering				
4.3.1	Rate as per Item No.4.3.1 of SH: Concrete Work	sqm	0.36	216.45	77.92 A
9999	Add for extra labour for hoisting	L.S.	1.61	2.00	3.22
	53.82x0.03 = 1.61				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	Add Extra labour for moulding :				
0023	Mason (brick layer) 1st class 0.58x0.03	day	0.0174	476.00	8.28
0024	Mason (brick layer) 2nd class 0.58x0.03	day	0.0174	374.50	6.52
0018	Coolie 1.5x0.03	day	0.045	320.83	14.44
0011	Bhisti 0.06x0.03	day	0.0018	320.83	0.58
	Extra labour for laying CC in RCC				
0017	Beldar 0.1x0.03	day	0.003	320.83	0.96
0011	Bhisti 0.2x0.03	day	0.006	320.83	1.92
0023	Mason (brick layer) 1st class 0.04x0.03	day	0.0012	476.00	0.57
0024	Mason (brick layer) 2nd class 0.04x0.03	day	0.0012	374.50	0.45
0028	Mate 0.04x0.03	day	0.0012	320.83	0.38
	TOTAL				<u>322.91 W</u>
	Add 1 % Water charges on "W-A"	53.69			0.54
	TOTAL				<u>323.44 X</u>
	Add GST (multiplying factor 0.1405) on "X-A"	54.23			7.62
	TOTAL				<u>331.06 Y</u>
	Add 15 % Contractor's profit and overheads on "Y-A"	61.85			9.28
	Total				<u>340.34 Z</u>
	Add Cess @ 1% on "Z-A"	71.13			0.71
	Cost for 0.03 cum				<u>341.05</u>
	Cost for 1 cum.				11368.42
	Say				11368.40

5.15 Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size)

Details of cost for beam 6.60m long 0.50m deep and 0.30m wide = $6.60 \times 0.50 \times 0.30 = 0.99$ cum.

MATERIAL

Cement concrete 1:1½:3

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.99	6376.30	6312.54 A
4.3.1	Centring and shuttering				
4.3.1	Rate same as per item no. 4.3.1 Of SH: Concrete work	sqm	6.90	216.45	1493.53 A
	Extra labour for lifting material upto floor V level				
0018	Coolie	day	1.11	320.83	356.12
	LABOUR				
	Extra labour for layin cement concrete in RCC work				
0017	Beldar	day	0.099	320.83	31.76
	0.10x0.99				
0011	Bhisti	day	0.198	320.83	63.52
	0.20x0.99				
0023	Mason (brick layer) 1st class	day	0.0396	476.00	18.85
	0.04x0.99				
0024	Mason (brick layer) 2nd class	day	0.0396	374.50	14.83
	0.04x0.99				
0028	Mate	day	0.0396	320.83	12.70
	0.04x0.99				
9999	Cement mortar 1:3 for fixing	L.S.	89.70	2.00	179.40
9999	Labour for hoisting, Transporting and setting in position	L.S.	269.10	2.00	538.20
	TOTAL				9021.46 W
	Add 1 % Water charges on "W-A"	1215.39			12.15
	TOTAL				9033.61 X
	Add GST (multiplying factor 0.1405) on "X-A"	1227.55			172.47
	TOTAL				9206.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1400.02			210.00
	Total				9416.09 Z
	Add Cess @ 1% on "Z-A"	1610.02			16.10
	Cost for 0.99 cum				9432.19
	Cost for 1 cum.				9527.46
	Say				9527.45

5.16 Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).

Details of cost for on shelf

0.90x0.45x0.04m thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.90x0.45x0.04m = 0.0162 cum				
	Cement concrete 1:1½:3				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.0162	6376.30	103.30 A
	Finishing				
13.18	Rate same as per item no. 13.18 of SH : Finishing	sqm	0.85	42.10	35.79 A
	Centring and shuttering:				
4.3.1	Rate same as per item no. 4.3.1 of SH : concrete work	sqm	0.108	216.45	23.38 A
	2x(0.90+0.45)x0.04 = 0.108 sqm				
	Extra labour for lifting material upto floor V level				
0018	Coolie LABOUR	day	0.018	320.83	5.77
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0017	Beldar	day	0.016	320.83	5.13
0011	Bhisti	day	0.0032	320.83	1.03
0023	Mason (brick layer) 1st class	day	0.0006	476.00	0.29
0024	Mason (brick layer) 2nd class	day	0.0006	374.50	0.22
0028	Mate	day	0.0006	320.83	0.19
9999	Cement mortar 1:3 for fixing	L.S.	4.42	2.00	8.84
9999	Labour for hoisting, Transporting and setting in position	L.S.	13.52	2.00	27.04
	TOTAL				210.98 W
	Add 1 % Water charges on "W-A"	48.52			0.49
	TOTAL				211.46 X
	Add GST (multiplying factor 0.1405) on "X-A"	49.00			6.88
	TOTAL				218.35 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	55.89			8.38
	Total				226.73 Z
	Add Cess @ 1% on "Z-A"	64.27			0.64
	Cost for 0.0162 cum				227.37
	Cost for 1 cum.				14035.26
	Say				14035.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.17	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size).				
	Details of cost for 4 RCC vertical fins 4m high at 1m centre to centre with two horizontal fins, all projecting 60cm from face of wall and 5cm thick cubical contents = 0.66 cum.				
	MATERIAL				
	Cement concrete 1:1½:3				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.66	6376.30	4208.36 A
	Centering and shuttering				
4.3.1	Rate as per item no. 4.3.1 of SH: Concrete work	sqm	2.56	216.45	554.12 A
	Extra labour for lifting material upto floor V level				
0018	Coolie	day	0.75	320.83	240.62
	LABOUR				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0017	Beldar	day	0.066	320.83	21.17
0011	Bhisti	day	0.132	320.83	42.35
0023	Mason (brick layer) 1st class	day	0.0264	476.00	12.57
0024	Mason (brick layer) 2nd class	day	0.0264	374.50	9.89
0028	Mate	day	0.0264	320.83	8.47
9999	Cement mortar 1:3 for fixing	L.S.	17.94	2.00	35.88
9999	Labour for hoisting, Transporting and setting in position	L.S.	71.76	2.00	143.52
9999	Sundries	L.S.	17.94	2.00	35.88
	TOTAL				5312.83 W
	Add 1 % Water charges on "W-A"	550.35			5.50
	TOTAL				5318.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	555.85			78.10
	TOTAL				5396.43 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	633.95			95.09
	Total				5491.52 Z
	Add Cess @ 1% on "Z-A"	729.04			7.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 0.66 cum				5498.81
	Cost for 1 cum.				8331.54
	Say				8331.55
5.18	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.				
5.18.1	50 mm thick				
	Details of cost for jali				
	2.00mx0.75m = 1.50 sqm.				
768	Cement Concrete Jali 50 mm thick	sqm	1.50	400.00	600.00
9999	Mortar for fixing	L.S.	6.24	2.00	12.48
9988	Carriage and sundries	L.S.	6.20	2.00	12.40
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.30	476.00	142.80
0024	Mason (brick layer) 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.08	320.83	346.50
	TOTAL				1226.53 W
	Add 1 % Water charges on "W"				12.27
	TOTAL				1238.79 X
	Add GST (multiplying factor 0.1405) on "X"				174.05
	TOTAL				1412.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				211.93
	Total				1624.77 Z
	Add Cess @ 1% on "Z"				16.25
	Cost of 1.50 sqm.				1641.02
	Cost of 1 sqm.				1094.01
	Say				1094.00
5.18.2	40 mm thick				
	Details of cost for 1.2mx0.60m = 0.72 sqm.				
769	Cement Concrete Jali 40 mm thick	sqm	0.72	350.00	252.00
9999	Mortar for fixing	L.S.	3.64	2.00	7.28
9988	Carriage and sundries	L.S.	3.64	2.00	7.28
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.50	320.83	160.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				529.04 W
	Add 1 % Water charges on "W"				5.29
	TOTAL				534.33 X
	Add GST (multiplying factor 0.1405) on "X"				75.07
	TOTAL				609.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				91.41
	Total				700.81 Z
	Add Cess @ 1% on "Z"				7.01
	Cost of 0.72sqm.				707.82
	Cost of 1 sqm.				983.08
	Say				983.10
5.18.3	25 mm thick				
	Details of cost for jali 0.75mx0.5m =				
	0.375 sqm				
770	Cement Concrete Jali 25 mm thick	sqm	0.375	275.00	103.13
9999	Mortar for fixing	L.S.	1.82	2.00	3.64
9988	Carriage and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				241.64 W
	Add 1 % Water charges on "W"				2.42
	TOTAL				244.06 X
	Add GST (multiplying factor 0.1405) on "X"				34.29
	TOTAL				278.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.75
	Total				320.10 Z
	Add Cess @ 1% on "Z"				3.20
	Cost of 0.375 sqm.				323.30
	Cost of 1 sqm.				862.14
	Say				862.15
5.19	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand) : 3 graded stone aggregate 20 mm nominal size, including centering and shuttering complete but , excluding cost of reinforcement.				
	Details of cost for 0.424 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Consider 2 R.S. Joist (150mmx80mm) 4.88m long placed 30cm apart centre to centre Overall dimensions of the beam 43cmx20cm- MATERIAL Concrete work- 4.93x0.43x0.20 = 0.424 cum for 1:1½:3 Cement Concrete (1 cement: 1½ coarse sand : 3 stone aggregate 20mm nominal size)				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete Work	cum	0.424	6376.30	2703.55 A
	Extra labour for laying C.C. in RCC work				
0017	Beldar	day	0.042	320.83	13.47
0011	Bhisti	day	0.085	320.83	27.27
0023	Mason (brick layer) 1st class	day	0.017	476.00	8.09
0024	Mason (brick layer) 2nd class	day	0.017	374.50	6.37
0028	Mate	day	0.017	320.83	5.45
	Form work- 4.93x0.83 girth = 4.09 sqm.				
5.9.5	Rate as per item 5.9.5 of SH: Reinforced cement concrete work	sqm	4.09	387.15	1583.44 A
9999	Sundries and for lifting materials	L.S.	21.58	2	43.16
	TOTAL				4390.80 W
	Add 1 % Water charges on "W-A"	103.82			1.04
	TOTAL				4391.84 X
	Add GST (multiplying factor 0.1405) on "X-A"	104.86			14.73
	TOTAL				4406.57 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	119.59			17.94
	Total				4424.51 Z
	Add Cess @ 1% on "Z-A"	137.53			1.38
	Cost of 0.424 cum				4425.89
	Cost of 1 cum.				10438.41
	Say				10438.40
5.20	Encasing rolled steel section in grillages with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand): 3 graded stone aggregate 20 mm nominal size, including centering and shuttering but, excluding cost of expanded metal and hangers. Details of cost for the grillage 3.50mx 3.50mx1.00m = 12.25 cum Cement concrete 1:1½:3				
4.1.2	Rate as per Item No.4.1.2 of SH: Concrete	cum	12.25	6376.30	78109.68 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Work				
	Extra labour for laying C.C. in RCC work				
0017	Beldar	day	1.225	320.83	393.02
0011	Bhisti	day	2.45	320.83	786.03
0023	Mason (brick layer) 1st class	day	0.49	476.00	233.24
0024	Mason (brick layer) 2nd class	day	0.49	374.50	183.51
0028	Mate	day	0.49	320.83	157.21
	Shuttering :				
	4.93x0.83 girth =4.09 sqm				
5.9.5	Rate as per item 5.9.5 of SH: Reinforced cement concrete work	sqm	4.09	387.15	1583.44 A
	TOTAL				81446.12 W
	Add 1 % Water charges on "W-A"	1753.00			17.53
	TOTAL				81463.65 X
	Add GST (multiplying factor 0.1405) on "X-A"	1770.53			248.76
	TOTAL				81712.41 Y
	Add 15 % Contractor's profit and overheads on	2019.29			302.89
	Total				82015.30 Z
	Add Cess @ 1% on "Z-A"	2322.19			23.22
	Cost of 12.25 cum.				82038.53
	Cost of 1 cum.				6697.02
	Say				6697.00
5.21	Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages, excluding cost of hangers.				
	Deatail of cost for 10 sqm				
	MATERIAL				
	Expended metal 20 mm x 60 mm and				
	1.6 mm thick = 10 sqm				
	Wastage 5% = 0.5 sqm				
	Total =10.50 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	10.50	280.00	2940.00
9977	Carriage of expended metal	L.S.	13.52	2.00	27.04
9999	Wire for tying	L.S.	13.52	2.00	27.04
	Cost of bending and placing in position				
0012	Blacksmith 1st class	day	0.25	476.00	119.00
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				3193.29 W
	Add 1 % Water charges on "W"				31.93
	TOTAL				3225.22 X
	Add GST (multiplying factor 0.1405) on "X"				453.14
	TOTAL				3678.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				551.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				4230.12 Z
	Add Cess @ 1% on "Z"				42.30
	Cost of 10 sqm				4272.42
	Cost of 1 sqm.				427.24
	Say				427.25
5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
5.22.1	Mild steel and Medium Tensile steel bars				
	Details of cost for 1 quintal-				
	MATERIAL				
	Mild steel bars = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcements	quintal	1.050	4500.00	4725.00
2205	Carriage of Steel 1.05/10 = 0.105t	tonne	0.105	94.34	9.69
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5637.34 W
	Add 1 % Water charges on "W"				56.37
	TOTAL				5693.71 X
	Add GST (multiplying factor 0.1405) on "X"				799.97
	TOTAL				6493.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				974.05
	Total				7467.73 Z
	Add Cess @ 1% on "Z"				74.68
	Cost of one quintal				7542.41
	Cost of 1 Kg.				75.42
	Say				75.40
5.22.2	Hard drawn steel wire				
	Details of cost for 1 quintal-				
	MATERIAL				
	Hard drawn steel wire = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	4800.00	5040.00
2205	Carriage of Steel 1.05q = 0.105 tonne	tonne	0.105	94.34	9.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	For cutting and laying in position etc.-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				5900.56 W
	Add 1 % Water charges on "W"				59.01
	TOTAL				5959.56 X
	Add GST (multiplying factor 0.1405) on "X"				837.32
	TOTAL				6796.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				1019.53
	Total				7816.41 Z
	Add Cess @ 1% on "Z"				78.16
	Cost of one quintal				7894.58
	Cost of 1 Kg.				78.95
	Say				78.95
5.22.3	Cold twisted bars				
	Details of cost for 1 quintal-				
	MATERIAL				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05q				
1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel 1.05/10 = 0.105t	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18
	Cost of 1 Kg.				76.83
	Say				76.85
5.22.4	Hot rolled deformed bars				
	Details of cost for 1 quintal-				
	MATERIAL				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05q				
1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel 1.05/10 = 0.105t	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18
	Cost of 1 Kg.				76.83
	Say				76.85
5.22.5	Hard drawn steel wire fabric				
	Details of cost for 1 quintal-				
	MATERIAL				
	Hard drawn steel wire fabric 100kg , 7.75kg per sqm = 12.903 sqm.				
	Add 5% wastage = 0.645 sqm. Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5825.64
2205	Carriage 1.05q = 0.105 tonne	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	For cutting and laying in position.				
0013	Blacksmith 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	1.50	320.83	481.25
9999	Sundries and binding wire	L.S.	13.52	2.00	27.04
	TOTAL				6470.73 W
	Add 1 % Water charges on "W"				64.71
	TOTAL				6535.44 X
	Add GST (multiplying factor 0.1405) on "X"				918.23
	TOTAL				7453.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				1118.05
	Total				8571.72 Z
	Add Cess @ 1% on "Z"				85.72
	Cost of one quintal				8657.43
	Cost of 1 Kg.				86.57
	Say				86.55
5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.				
	Details of cost for 1 quintal-				
	MATERIAL				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05 q				
	Total =1.05q				
1005	Twisted steel / deformed TMT Fe-500D	quintal	1.05	4600.00	4830.00
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 Kg.				76.83
	Say				76.85
5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
5.22A.1	Mild steel and Medium Tensile steel bars				
	Details of cost for 1 quintal-				
	MATERIAL				
	Mild steel bars = 1.00 q				
	Wastage 5% = 0.05 q Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcements	quintal	1.05	4500.00	4725.00
2205	Carriage of Steel NOS/ 10 = 0.105 t	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5637.56 W
	Add 1 % Water charges on "W"				56.38
	TOTAL				5693.93 X
	Add GST (multiplying factor 0.1405) on "X"				800.00
	TOTAL				6493.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				974.09
	Total				7468.02 Z
	Add Cess @ 1% on "Z"				74.68
	Cost of one quintal				7542.70
	Cost of 1 Kg.				75.43
	Say				75.45
5.22A.2	Hard drawn steel wire				
	Details of cost for 1 quintal-				
	MATERIAL				
	Hard drawn steel wire = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	4800.00	5040.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
	LABOUR				
	For cutting and laying in position etc.-				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				5900.56 W
	Add 1 % Water charges on "W"				59.01
	TOTAL				5959.56 X
	Add GST (multiplying factor 0.1405) on "X"				837.32
	TOTAL				6796.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				1019.53
	Total				7816.41 Z
	Add Cess @ 1% on "Z"				78.16
	Cost of one quintal				7894.58
	Cost of 1 Kg.				78.95
	Say				78.95

5.22A.3 Cold twisted bars

Details of cost for 1 quintal-

MATERIAL

Deformed twisted steel bars = 1.00 q

Wastage 5% = 0.05 q

Total = 1.05q

1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00

LABOUR

For straightening, cutting, bending, binding and placing in position-

0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 Kg.				76.83
	Say				76.85
5.22A.4	Hot rolled deformed bars				
	Details of cost for 1 quintal-				
	MATERIAL				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05 q				
	Total = 1.05q				
1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18
	Cost of 1 Kg.				76.83
	Say				76.85
5.22A.5	Hard drawn steel wire fabric				
	Details of cost for 1 quintal-				
	MATERIAL				
	Hard drawn steel wire fabric 100kg, 7.75kg per sqm = 12.903 sqm.				
	Add 5% wastage = 0.645 sqm. Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5825.64
2205	Carriage of Steel	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For cutting and laying in position.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0013	Blacksmith 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	1.50	320.83	481.25
9999	Sundries and binding wire	L.S.	13.52	2.00	27.04
	TOTAL				6470.73 W
	Add 1 % Water charges on "W"				64.71
	TOTAL				6535.44 X
	Add GST (multiplying factor 0.1405) on "X"				918.23
	TOTAL				7453.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				1118.05
	Total				8571.72 Z
	Add Cess @ 1% on "Z"				85.72
	Cost of one quintal				8657.43
	Cost of 1 Kg.				86.57
	Say				86.55

5.22A.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.

Details of cost for 1 quintal-

MATERIAL

Deformed twisted steel bars = 1.00 q

Wastage 5% = 0.05 q

Total =1.05q

1005	Twisted steel / deformed bars	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
	For straightening, cutting, bending, binding and placing in position-				
0012	Blacksmith 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5742.56 W
	Add 1 % Water charges on "W"				57.43
	TOTAL				5799.98 X
	Add GST (multiplying factor 0.1405) on "X"				814.90
	TOTAL				6614.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				992.23
	Total				7607.11 Z
	Add Cess @ 1% on "Z"				76.07
	Cost of one quintal				7683.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 Kg.				76.83
	Say				76.85
5.22B	Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete upto plinth level.				
5.22B.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.				
	Details of cost for 1 quintal-				
	MATERIAL				
	Deformed twisted steel bars = 1.00 q				
	Total =1.00q				
1005	Twisted steel / deformed bars	quintal	1.00	4600.00	4600.00
2205	Carriage of Steel	tonne	0.100	94.34	9.43
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
9999	For cut and bend	L.S.	156.00	2.00	312.00
	For binding and placing in position				
0012	Blacksmith 1st class	day	0.60	476.00	285.60
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5505.35 W
	Add 1 % Water charges on "W"				55.05
	TOTAL				5560.41 X
	Add GST (multiplying factor 0.1405) on "X"				781.24
	TOTAL				6341.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				951.25
	Total				7292.89 Z
	Add Cess @ 1% on "Z"				72.93
	Cost of one quintal				7365.82
	Cost of 1 Kg.				73.66
	Say				73.65
5.22C	Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete above plinth level.				
5.22C.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.				
	Details of cost for 1 quintal-				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Deformed twisted steel bars = 1.00 q				
	Total =1.00q				
1005	Twisted steel / deformed bars	quintal	1.00	4600.0	4600.00
2205	Carriage of Steel	tonne	0.100	94.338	9.43
9999	Cover block	L.S.	26.00	2.00	52.00
	LABOUR				
9999	For cut and bend	L.S.	156.00	2.000	312.00
	For binding and placing in position				
0012	Blacksmith 1st class	day	0.60	476.0	285.60
0017	Beldar	day	0.60	320.8	192.50
9999	Sundries and binding wire	L.S.	26.91	2.00	53.82
	TOTAL				5505.35 W
	Add 1 % Water charges on "W"				55.05
	TOTAL				5560.41 X
	Add GST (multiplying factor 0.1405) on "X"				781.24
	TOTAL				6341.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				951.25
	Total				7292.89 Z
	Add Cess @ 1% on "Z"				72.93
	Cost of one quintal				7365.82
	Cost of 1 Kg.				73.66
	Say				73.65
5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).				
	Details of cost for 10sqm.				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per item No 3.3 of SH: Mortars	cum	0.072	3988.00	287.14
0040	Mason (average)	day	0.51	374.50	191.00
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Extra for removing burrs, cleaning with wire brushes pock marking with pointed tool etc. complete	L.S.	13.39	2.00	26.78
9999	Scaffolding and Sundries	L.S.	11.70	2.00	23.40
	TOTAL				1064.10 W
	Add 1 % Water charges on "W"				10.64
	TOTAL				1074.74 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				151.00
	TOTAL				1225.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				183.86
	Total				1409.60 Z
	Add Cess @ 1% on "Z"				14.10
	Cost of 10 Sqm.				1423.70
	Cost per sqm.				142.37
	Say				142.35
5.24	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand), including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps, including subsequent removal and cleaning of the same.				
	Details of cost for 10sqm.				
	MATERIAL				
	Cement mortar 1:2 (1 Cement : 2 Coarse sand)				
3.7	Rate as per item No 3.7 of SH: Mortars	cum	0.03	5150.60	154.52
367	Portland Cement	tonne	0.0213	4940.00	105.22
2209	Carriage of Cement	tonne	0.0213	94.34	2.01
	LABOUR				
0023	Mason (brick layer) 1st class	Day	0.200	476.00	95.20
0024	Mason (brick layer) 2nd class	Day	0.200	374.50	74.90
0017	Beldar	Day	0.250	320.83	80.21
9999	Spreading earth on floor (7.5mm thick)	L.S.	35.490	2.00	70.98
	Spreading sand 15mm thick on floor				
983	Fine sand	cum	0.150	900.00	135.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.150	106.13	15.92
9999	Disposal of earth spread over floor protection	L.S.	5.330	2.00	10.66
9999	Sundries	L.S.	6.240	2.00	12.48
	TOTAL				757.10 W
	Add 1 % Water charges on "W"				7.57
	TOTAL				764.67 X
	Add GST (multiplying factor 0.1405) on "X"				107.44
	TOTAL				872.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				130.82
	Total				1002.92 Z
	Add Cess @ 1% on "Z"				10.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 Sqm.				1012.95
	Cost per sqm.				101.29
	Say				101.30
5.25	Providing and fixing in position copper plate as per design for expansion joints.				
	Details of cost for 10.56 kg Considering 3.0 m length, width 250mm and 1.6 mm thick = 0.750 sqm copper plate.				
	Weight of copper plate @ 14.08 kg/m ²				
	10.56kg				
967	Copper plate	kilo gram	10.56	527.00	5565.12
	LABOUR				
0013	Blacksmith 2nd class	day	0.25	374.50	93.63
9999	Sundries	L.S.	6.24	2.00	12.48
	TOTAL				5671.23 W
	Add 1 % Water charges on "W"				56.71
	TOTAL				5727.94 X
	Add GST (multiplying factor 0.1405) on "X"				804.78
	TOTAL				6532.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				979.91
	Total				7512.62 Z
	Add Cess @ 1% on "Z"				75.13
	Cost of 10.56 kg				7587.75
	Cost per kg.				718.54
	Say				718.55
5.26	Providing and filling in position, blown bitumen in expansion joints.				
	Details of cost for a joint of 300m length				
	2.5cm width and 15cm depth = 1.125 cum				
	Cubical content of joint- 300x0.025x0.150=1.125 cum.				
	MATERIAL				
	Bitumen 85/25 @ 1050kg per cum.				
	1.25x1050kg = 1181.25kg				
	Add wastage @ 5% = 59.06 kg. = 1240.31 = 1.240 tonne				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	1.24	34000.00	42160.00
2211	Carriage of Tar/ bitumen	tonne	1.24	106.13	131.60
370	Coal (steam)	quintal	2.48	440.00	1091.20
	For heating of bitumen @ 2.0 quintal per tonne of bitumen.				
	1.240x2.0=2.48q=0.248t				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour for heating, mixing and filling-				
2200	Carriage of Tar/ bitumen	tonne	0.248	121.29	30.08
0023	Mason (brick layer) 1st class	day	2.52	476.00	1199.52
0024	Mason (brick layer) 2nd class	day	2.52	374.50	943.74
0017	Beldar	day	8.06	320.83	2585.89
9999	Sundries	L.S.	121.16	2.00	242.32
	TOTAL				48384.35 W
	Add 1 % Water charges on "W"				483.84
	TOTAL				48868.19 X
	Add GST (multiplying factor 0.1405) on "X"				6865.98
	TOTAL				55734.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				8360.13
	Total				64094.30 Z
	Add Cess @ 1% on "Z"				640.94
	Cost for 1.125 cum				64735.25
	cost for 1.00cum				57542.44
	Say				57542.45
5.27	Providing and filling in position bitumen mix filler of Proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for expansion joints.				
	Details of cost for a joint of 300m length				
	2.5cm width and 15cm depth = 1.125 cum				
	Cubical content of joints-				
	300x0.150x0.025=1.125cum.				
	MATERIAL				
	Bitumen S-90 = 256.30 kg per cum.				
	256.30x1.125 = 288.34 kg.				
	Add for wastage @ 5% = 14.42 kg.				
	Total = 302.76 kg. or = 0.303 tonne.				
309	Paving bitumen VG-10 of approved quality	tonne	0.303	25614.00	7761.04
2211	Carriage of Tar bitumen	tonne	0.303	106.13	32.16
370	Coal (steam) for heating of bitumen @ 2.0 quintal pertonne of bitumen, i.e.	quintal	0.606	440.00	266.64
	0.303x2.0=0.606q				
2200	Carriage of steam coal	tonne	0.061	121.29	7.40
367	Portland Cement	tonne	0.0036	4940.00	17.78
	1/80x228.34=3.6 kg = 0.0036 Tonne				
2209	Carriage of Cement	tonne	0.0036	94.34	0.34
982	Coarse sand	cum	0.90	1350.00	1215.00
	1/4th of the quantity of cement in kg =				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	3.6/4= 0.90 cum				
2203	Carriage of Coarse sand	cum	0.90	106.13	95.52
	LABOUR				
	Labour for heating and filling :				
0023	Mason (brick layer) 1st class	day	2.52	476.00	1199.52
0024	Mason (brick layer) 2nd class	day	2.52	374.50	943.74
0017	Beldar	day	8.06	320.83	2585.89
9999	Sundries	L.S.	121.16	2.00	242.32
	TOTAL				14367.35 W
	Add 1 % Water charges on "W"				143.67
	TOTAL				14511.02 X
	Add GST (multiplying factor 0.1405) on "X"				2038.80
	TOTAL				16549.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				2482.47
	Total				19032.29 Z
	Add Cess @ 1% on "Z"				190.32
	Cost for 1.125 cum				19222.62
	cost for 1.00cum				17086.77
	Say				17086.75
5.28	Providing and fixing in position 12mm thick bitumen impregnated fiber board conforming to IS: 1838, including cost of primer, sealing compound Grade-A in expansion joints.				
	Details of cost for joint 100m long 10cm deep =				
	10 sqm				
	MATERIAL				
	(i) Impregnated fibre board 1x100x				
	0.075=7.5sqm				
339	Flame retardent face insulating, Impregnated fibre board 12 mm thick	sqm	7.50	375.00	2812.50
	(ii) Primere 80m/litter 100m=100/80 x1=1.25 lit				
316	Bitumen solution primer of approved quality	litre	1.25	45.00	56.25
	(iii) Sealing compound @ 3 m per litre for				
	100m = 100/3x1 =33.3 litres				
	Wastage @ 5% = 1.67				
	Total = 35.00 litre				
	(1 litre = 0.9 kg) = 35.00x0.9 = 31.5 kg				
314	Bitumen hot sealing compound : grade A	kilogram	31.50	28.00	882.00
9977	Carriage	L.S.	26.91	2.00	53.82
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.25	320.83	80.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				4040.66 W
	Add 1 % Water charges on "W"				40.41
	TOTAL				4081.06 X
	Add GST (multiplying factor 0.1405) on "X"				573.39
	TOTAL				4654.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				698.17
	Total				5352.62 Z
	Add Cess @ 1% on "Z"				53.53
	Cost for 100m long 10cm deep				5406.15
	Cost per cm depth per 100m long				540.61
	Say				540.60
5.29	Providing and fixing sheet covering over expansion joints with iron screws as per design.				
5.29.1	Non-asbestos fibre cement board 6 mm thick as per IS: 14862.				
5.29.1.1	150mm wide				
	Details of cost for 3m length				
	MATERIAL				
236	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6mm thick.	sqm	0.47	210.00	98.70
2273	Carriage of A.C.sheet and accessories 0.45sqm = 0.0049 tonne	tonne	0.0049	94.34	0.46
9999	50mm iron screws with washer and rawl plugs	L.S.	40.30	2.00	80.60
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				318.83 W
	Add 1 % Water charges on "W"				3.19
	TOTAL				322.02 X
	Add GST (multiplying factor 0.1405) on "X"				45.24
	TOTAL				367.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.09
	Total				422.35 Z
	Add Cess @ 1% on "Z"				4.22
	Cost for 3m				426.57
	Cost per meter				142.19
	Say				142.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.29.1.2	200mm wide				
	Details of cost for 3m length				
	MATERIAL				
236	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6mm thick.	sqm	0.63	210.00	132.30
2273	Carriage of A.C.sheet and accessories	tonne	0.0065	94.34	0.61
	0.60sqm. = 0.0065 tonne				
9999	50mm iron screws with washer and rawl plugs	L.S.	53.82	2.00	107.64
	LABOUR				
0015	Carpenter 2nd class	day	0.27	374.50	101.12
0017	Beldar	day	0.27	320.83	86.62
	TOTAL				428.29 W
	Add 1 % Water charges on "W"				4.28
	TOTAL				432.58 X
	Add GST (multiplying factor 0.1405) on "X"				60.78
	TOTAL				493.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.00
	Total				567.35 Z
	Add Cess @ 1% on "Z"				5.67
	Cost for 3m				573.03
	Cost per meter				191.01
	Say				191.00
5.29.2	Aluminium fluted strips 3.15 mm thick.				
5.29.2.1	150 mm wide				
	Details of cost for 1 meter				
	MATERIAL				
2391	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	1.00	278.00	278.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.06	36.00	2.16
9977	Carriage of materials	L.S.	1.04	2.00	2.08
	LABOUR				
0015	Carpenter 2nd class	day	0.067	374.50	25.09
0017	Beldar	day	0.067	320.83	21.50
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				332.47 W
	Add 1 % Water charges on "W"				3.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				335.79 X
	Add GST (multiplying factor 0.1405) on "X"				47.18
	TOTAL				382.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.45
	Total				440.42 Z
	Add Cess @ 1% on "Z"				4.40
	Cost for 1 metre				444.82
	Say				444.80
5.29.2.2	200 mm wide				
	Details of cost for 1 meter				
	MATERIAL				
2392	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	1.00	370.00	370.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.06	36.00	2.16
9977	Carriage of materials	L.S.	1.30	2.00	2.60
	LABOUR				
0015	Carpenter 2nd class	day	0.089	374.50	33.33
0017	Beldar	day	0.089	320.83	28.55
9999	Sundries	L.S.	2.34	2.00	4.68
	TOTAL				441.32 W
	Add 1 % Water charges on "W"				4.41
	TOTAL				445.74 X
	Add GST (multiplying factor 0.1405) on "X"				62.63
	TOTAL				508.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.25
	Total				584.62 Z
	Add Cess @ 1% on "Z"				5.85
	Cost for 1 metre				590.46
	Say				590.45
5.29.3	Non-asbestos Cement bonded wood particle board 6mm thick as per IS : 14276				
5.29.3.1	150 mm wide				
	Details of cost for 3 metre				
	MATERIAL:				
242	Multi purpose cement bonded wood particle board 6 mm thick	sqm	0.47	195.00	91.65
2273	Carriage of board and accessories	tonne	0.005	94.34	0.47
	0.45sqm = 0.0049 tonne				
9999	50mm iron screws with washer and rawl plugs	L.S	40.30	2.00	80.60
	LABOUR:				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				311.79 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.12
	TOTAL				314.91 X
	Add GST (multiplying factor 0.1405) on "X"				44.24
	TOTAL				359.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				53.87
	Total				413.02 Z
	Add Cess @ 1% on "Z"				4.13
	Cost of 3 metre				417.15
	Cost of 1 metre				139.05
	Say				139.05
5.29.3.2	200 mm wide				
	Details of cost for 3m length				
	MATERIAL:				
242	Multi purpose cement bonded wood particle board 6 mm thick	sqm	0.63	195.00	122.85
2273	Carriage of board and accessories	tonne	0.0065	94.34	0.61
	0.60sqm = 0.0060 tonne				
9999	50mm iron screws with washer and rawl plugs	L.S	53.82	2.00	107.64
	LABOUR:				
0015	Carpenter 2nd class	day	0.27	374.50	101.12
0017	Beldar	day	0.27	320.83	86.62
	TOTAL				418.84 W
	Add 1 % Water charges on "W"				4.19
	TOTAL				423.03 X
	Add GST (multiplying factor 0.1405) on "X"				59.44
	TOTAL				482.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				72.37
	Total				554.84 Z
	Add Cess @ 1% on "Z"				5.55
	Cost of 3 metre				560.38
	Cost of 1 metre				186.79
	Say				186.80
5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.				
	Details of cost for 30 metre long throating or plaster or moulding-				
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	1.00	320.83	320.83
9999	Add for materials (cement mortar etc.)	L.S.	26.91	2.00	53.82
	TOTAL				799.90
	Add 1 % Water charges on "W"				8.00
	TOTAL				807.90 X
	Add GST (multiplying factor 0.1405) on "X"				113.51
	TOTAL				921.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				138.21
	Total				1059.62 Z
	Add Cess @ 1% on "Z"				10.60
	Cost for 30 metre				1070.22
	Cost per meter				35.67
	Say				35.65

5.31 Extra for laying reinforced cement concrete in or under water and/ or liquid mud, including cost of pumping or bailing out water and removing slush etc., complete. Note For Item No. 5.31:- The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub - soil water conditions.

Details of cost for depth of water 0.30m.

Quantity of concrete = 14 cum.

Analysis same as per item number 4.15

pumping hours = 3 hrs. or 0.375 day.

011	Hire charges of Pumpset of capacity 4000 litres/hour. for cleaning slush	day	0.375	700.00	262.50
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				1545.82 W
	Add 1 % Water charges on "W"				15.46
	TOTAL				1561.28 X
	Add GST (multiplying factor 0.1405) on "X"				219.36
	TOTAL				1780.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				267.10
	Total				2047.73 Z
	Add Cess @ 1% on "Z"				20.48
	Cost of 14cum. per 0.30m depth				2068.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of cum. per m depth				492.43
	Say				492.45
5.32	Extra for laying reinforced cement concrete in or under foul positions.				
	Details of cost for depth of water 0.30m.				
	Details of cost for 1 cum.				
	ANALYSIS SAME AS ITEM NO 4.16				
	Extra labour due to slow progress-				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.15	320.83	48.12
	TOTAL				145.34 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.80 X
	Add GST (multiplying factor 0.1405) on "X"				20.62
	TOTAL				167.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.11
	Total				192.53 Z
	Add Cess @ 1% on "Z"				1.93
	Cost for 1 cum.				194.46
	Say				194.45
5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
5.33.1	All works upto plinth level				
	Details of cost for 1.00 cum				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
367	Portland Cement	tonne	0.33	4940.00	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.00	59.40
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. LABOUR	cum	1.00	210.00	210.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				5183.27 W
	Add 1 % Water charges on "W"				51.83
	TOTAL				5235.10 X
	Add GST (multiplying factor 0.1405) on "X"				735.53
	TOTAL				5970.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				895.60
	Total				6866.23 Z
	Add Cess @ 1% on "Z"				68.66
	Cost per 1.00 cum				6934.89
	Say				6934.90

5.33.2 All works above plinth level upto floor V level

Details of cost for 1.00 cum

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement	tonne	0.33	4940	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.00	59.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level : = 0.75 x 2.5 = 1.88)				
0018	Coolie	day	1.88	320.83	603.16
	Total				5786.43 W
	Add 1 % Water charges on "W"				57.86
	TOTAL				5844.29 X
	Add GST (multiplying factor 0.1405) on "X"				821.12
	TOTAL				6665.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				999.81
	Total				7665.23 Z
	Add Cess @ 1% on "Z"				76.65
	Cost per 1.00 cum				7741.88
	Say				7741.90
5.34	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.				
5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)				
	Details of cost for 1 cum.				
	Cement for M-30 mix = 0.340 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.010 t				
367	Portland Cement	tonne	0.01	4940.00	49.40
2209	Carriage of Cement	tonne	0.01	94.34	0.94
	Plasticizer for M-30 mix = 1.70 Kg				
	Plasticizer for M-25 mix = 1.65 Kg				
	Difference = 0.05 kg				
7318	Plasticizer / super plasticizer	kilo gram	0.05	36.00	1.80
	TOTAL				52.14 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				0.52
	TOTAL				52.66 X
	Add GST (multiplying factor 0.1405) on "X"				7.40
	TOTAL				60.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.01
	Total				69.07 Z
	Add Cess @ 1% on "Z"				0.69
	Cost per cum.				69.76
	Say				69.75
5.34.2	Providing M-35 grade concrete instead of M-25 grade BMC/ RMC. (Note : Cement content considered in M-35 is @ 350 kg/ cum)				
	Details of cost for 1 cum.				
	Cement for M-35 mix = 0.350 t				
	Cement for M-25 mix = 0.330 t				
	Difference 0.020 t				
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
	Plasticizer for M-35 mix = 1.75 Kg				
	Plasticizer for M-25mix = 1.65 Kg				
	Difference = 0.10 kg				
7318	Plasticizer / super plasticizer	kilo gram	0.10	36.00	3.60
	TOTAL				104.29 W
	Add 1 % Water charges on "W"				1.04
	TOTAL				105.33 X
	Add GST (multiplying factor 0.1405) on "X"				14.80
	TOTAL				120.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.02
	Total				138.15 Z
	Add Cess @ 1% on "Z"				1.38
	Cost per cum.				139.53
	Say				139.55
5.34.3	Providing M-40 grade concrete instead of M-25 grade BMC/ RMC.(Note : Cement content considered in M-40 is @ 360 kg/ cum)				
	Details of cost for 1 cum.				
	Cement for M-40 mix = 0.360 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.030 t				
367	Portland Cement	tonne	0.03	4940.00	148.20
2209	Carriage of Cement	tonne	0.03	94.34	2.83
	Plasticizer for M-40 mix = 1.80 Kg				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Plasticizer for M-25 mix = 1.65 Kg				
	Difference = 0.15 kg				
7318	Plasticizer / super plasticizer	kilogra	0.15	36.00	5.40
	TOTAL				156.43 W
	Add 1 % Water charges on "W"				1.56
	TOTAL				157.99 X
	Add GST (multiplying factor 0.1405) on "X"				22.20
	TOTAL				180.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.03
	Total				207.22 Z
	Add Cess @ 1% on "Z"				2.07
	Cost per cum.				209.29
	Say				209.30
5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.				
	Details of cost for 1 quintal				
367	Portland Cement	tonne	0.10	4940.00	494.00
2209	Carriage of Cement	tonne	0.10	94.34	9.43
	TOTAL				503.43 W
	Add 1 % Water charges on "W"				5.03
	TOTAL				508.47 X
	Add GST (multiplying factor 0.1405) on "X"				71.44
	TOTAL				579.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				86.99
	Total				666.89 Z
	Add Cess @ 1% on "Z"				6.67
	Cost per quintal				673.56
	Say				673.55
5.36	Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular, as per design and shape for floors and roofs in 1:1½:3 (1 Cement : 1½ coarse sand) : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints in Cement mortar 1:2 (1 Cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but, excluding the cost of reinforcement.				
	Details of cost for 1.38 cum				
	Consider a waffle 09. x 0.9 x 0.3m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total area covered $4.548 \times 3.636 = 16.54$ sqm				
	Cement concrete in 1 unit				
	Top $0.8 \times 0.8 \times 0.035 = 0.0224$				
	Sides $2(0.8 \times 0.265 \times 0.0325) = 0.0138$				
	$2(0.735 \times 0.265 \times 0.0325) = 0.0127$				
	Total = 0.0489				
	Flange $4 \times 0.85 \times 0.05 \times 0.035 = 0.0060$				
	Total = 0.0549				
	Add for Fillets 25% = 0.0137 Total = 0.069 cum.				
	Quantity for 20 such units = 1.38 cum.				
5.2.2	Rate as per item no 5.2.2 of SH : RCC	cum	1.38	7633.20	10533.82 A
	(i) Shuttering and centring				
	Face in contact				
	$4 \times 0.8 \times 0.265 = 0.848$				
	Inner $4 \times 0.735 \times 0.265 = 0.779$				
	Top (inside) $1 \times 0.735 \times 0.735 = 0.540$ Flange				
	$4 \times 0.9 \times 0.035 = 0.126$ Total = 2.293 sqm.				
	Quantity 20 such units 45.86 sqm.				
5.9.15	Rate as per item no 5.9.15 of SH : RCC	sqm	45.86	216.45	9926.40 A
	Hooks for lifting $2 \times 1.5 = 3.0$ m				
	$4 \times 0.01 = 0.04$ m				
	Total = 3.04m				
	@ 3kg per m-9.12Kg or 0.009 t = 9 kg				
10.2	Rate as per item no 10.2 of SH : Steel work	kg	9.00	86.65	779.85 A
9988	(iii) 10mm dia. Bolts 60mm long with nuts and washers $2 \times 2 = 4$ Nos. including carriage of bolts	L.S.	13.00	2.00	26.00
9999	Sundries	L.S.	79.95	2.00	159.90
	(iv) Transportation and erection labour for 20 units				
0026	Mason (for ornamental stone work) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	6.00	320.83	1924.98
	(v) Cost of poining flush or deep ruled in cement mortar 1:2 (1 Cement : 2 fine sand)				
13.35.1	Rate as per item no 13.35.1 of SH : Finishing	sqm	16.54	92.30	1526.64 A
	TOTAL				25353.59 W
	Add 1 % Water charges on "W-A"	2586.88			25.87
	TOTAL				25379.45 X
	Add (multiplying factor 0.1405) on "X-A"	2612.75			367.09
	TOTAL				25746.55 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2979.84			446.98
	Total				26193.52 Z
	Add Cess @ 1% on "Z-A"	3426.82			34.27
	Total for 20 units				26227.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1.38 cum.				26227.79
	Cost for 1 cum.				19005.64
	Say				19005.65

5.37 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.

(Note :- Cement content considered in this item is @ 330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately).

5.37.1 All works upto plinth level

Details of cost for 1.00 cum

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement	tonne	0.33	4940.00	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.00	59.40
004	Production cost, carriage to site, pumping to respective floors and laying in position Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
0040	Labour for pouring, consolidating & curing Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				5483.27 W
	Add 1 % Water charges on "W"				54.83
	TOTAL				5538.10 X
	Add GST (multiplying factor 0.1405) on "X"				778.10
	TOTAL				6316.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				947.43
	Total				7263.64 Z
	Add Cess @ 1% on "Z"				72.64
	Cost per 1.00 cum				7336.27
	Say				7336.25

5.37.2 All works above plinth level upto floor V level

Details of cost for 1.00 cum

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1350.00	769.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1350.00	378.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
982	Coarse sand	cum	0.425	1350.00	573.75
2203	Carriage of Coarse sand	cum	0.425	106.13	45.11
367	Portland Cement	tonne	0.33	4940.00	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.00	59.40
	Production cost, carriage to site, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	Labour for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries (Extra labour for lifting material upto floor V level : = 0.75 x 2.5 = 1.88)	L.S.	13.00	2.00	26.00
0018	Coolie	day	1.88	320.83	603.16
	Total				6086.43 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				60.86
	TOTAL				6147.29 X
	Add GST (multiplying factor 0.1405) on "X"				863.69
	TOTAL				7010.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				1051.65
	Total				8062.64 Z
	Add Cess @ 1% on "Z"				80.63
	Cost per 1.00 cum				8143.26
	Say				8143.25
5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.				
	Details of cost for 1 cum				
	MATERIAL				
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	Total				210.00 W
	Add 1 % Water charges on "W"				2.10
	TOTAL				212.10 X
	Add GST (multiplying factor 0.1405) on "X"				29.80
	TOTAL				241.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.29
	Total				278.19 Z
	Add Cess @ 1% on "Z"				2.78
	Cost for 1 cum				280.97
	Say				280.95
5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. NOTE- (1) Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.40.1	All works up to Plinth level.				
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1300.00	845.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.33	4940.00	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer	kilogram	1.65	36.00	59.40
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	LABOUR				
	for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				5459.31
	Add 1 % Water charges on "W"				54.59
	TOTAL				5513.91 X
	Add GST (multiplying factor 0.1405) on "X"				774.70
	TOTAL				6288.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				943.29
	Total				7231.90 Z
	Add Cess @ 1% on "Z"				72.32
	Cost per 1.00 cum				7304.22
	Say				7304.20
5.40.2	All works above plinth & up to floor V level.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.00 cum				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size 0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1300.00	845.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1350.00	324.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.65	115.36	74.98
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.24	106.13	25.47
982	Coarse sand	cum	0.37	1350.00	499.50
2203	Carriage of Coarse sand	cum	0.37	106.13	39.27
1980	Flyash	cum	0.21	10.00	2.10
2262	Carriage of Flyash	cum	0.21	106.13	22.29
367	Portland Cement	tonne	0.33	4940.00	1630.20
2209	Carriage of Cement	tonne	0.33	94.34	31.13
7318	Plasticizer / super plasticizer	kilogram	1.65	36.00	59.40
	Production cost, pumping to respective floors and laying in position				
004	Production cost of concrete by batch mix plant.	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
	LABOUR				
	for pouring, consolidating & curing				
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.90	320.83	288.75
012	Vibrator(Needle type 40mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	13.00	2.00	26.00
	(Extra labour for lifting material upto floor V level : = 0.75 x 2.5 = 1.88)				
0018	Coolie	Day	1.88	320.83	603.16
	Total				6062.47 W
	Add 1 % Water charges on "W"				60.62
	TOTAL				6123.10 X
	Add GST (multiplying factor 0.1405) on "X"				860.30
	TOTAL				6983.39 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				1047.51
	Total				8030.90 Z
	Add Cess @ 1% on "Z"				80.31
	Cost per 1.00 cum				8111.21
	Say				8111.20
5.41	Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.				
5.41.1	Non pigmented wet curing compound				
	Detail of cost for 10.00 sqm (covering area 5 sqm/litre)				
	MATERIAL				
349	Curing compound	litre	2.00	38.00	76.00
9977	Carriage of material	L.S.	1.00	2.00	2.00
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0017	Beldar	day	0.17	320.83	54.54
9999	Sundries, Brush	L.S.	3.00	2.00	6.00
	TOTAL				262.13 W
	Add 1 % Water charges on "W"				2.62
	TOTAL				264.75 X
	Add GST (multiplying factor 0.1405) on "X"				37.20
	TOTAL				301.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.29
	Total				347.24 Z
	Add Cess @ 1% on "Z"				3.47
	Cost of 10 sqm				350.71
	Cost of 1 sqm				35.07
	Say				35.05
5.42	Providing and fixing parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineerin-Charge.				
5.42.1	Coupler for 16 mm diameter reinforcement bar				
	Detail of cost for 1 Nos				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2394	Coupler 16 mm dia	each	1.00	30.00	30.00
	LABOUR				
9999	For placing in position and fixing	L.S.	3.77	2.00	7.54
9999	Tapard/Parallel threading charges	L.S.	17.77	2.00	35.54
	TOTAL				73.08 W
	Add 1 % Water charges on "W"				0.73
	TOTAL				73.81 X
	Add GST (multiplying factor 0.1405) on "X"				10.37
	TOTAL				84.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.63
	Total				96.81 Z
	Add Cess @ 1% on "Z"				0.97
	Total				97.78
	Cost of 1 no				97.78
	Say				97.80

5.42.2 Coupler for 20 mm diameter reinforcement bar

Detail of cost for 1 Nos

MATERIAL

2395	Coupler 20 mm dia	each	1.00	39.00	39.00
	LABOUR				
9999	For placing in position and fixing	L.S.	5.90	2.00	11.80
9999	Tapard/Parallel threading charges	L.S.	25.17	2.00	50.34
	TOTAL				101.14 W
	Add 1 % Water charges on "W"				1.01
	TOTAL				102.15 X
	Add GST (multiplying factor 0.1405) on "X"				14.35
	TOTAL				116.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				17.48
	Total				133.98 Z
	Add Cess @ 1% on "Z"				1.34
	Cost of 1 no				135.32
	Say				135.30

5.42.3 Coupler for 25 mm diameter reinforcement bar

Detail of cost for 1 Nos

MATERIAL

2396	Coupler 25 mm dia	each	1.00	69.50	69.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
9999	For placing in position and fixing	L.S.	8.69	2.00	17.38
9999	Tapard/Parallel threading charges	L.S.	29.61	2.00	59.22
	TOTAL				146.10 W
	Add 1 % Water charges on "W"				1.46
	TOTAL				147.56 X
	Add GST (multiplying factor 0.1405) on "X"				20.73
	TOTAL				168.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.24
	Total				193.54 Z
	Add Cess @ 1% on "Z"				1.94
	Total				195.47
	Cost of 1 no				195.47
	Say				195.45

5.42.4 Coupler for 28 mm diameter reinforcement bar

Detail of cost for 1 Nos

MATERIAL

2397	Coupler 28 mm dia	each	1.00	80.00	80.00
	LABOUR				
9999	For placing in position and fixing	L.S.	12.84	2.00	25.68
9999	Tapard/Parallel threading charges	L.S.	32.57	2.00	65.14
	TOTAL				170.82 W
	Add 1 % Water charges on "W"				1.71
	TOTAL				172.53 X
	Add GST (multiplying factor 0.1405) on "X"				24.24
	TOTAL				196.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.52
	Total				226.28 Z
	Add Cess @ 1% on "Z"				2.26
	Total				228.55
	Cost of 1 no				228.55
	Say				228.55

5.42.5 Coupler for 32 mm diameter reinforcement bar

Detail of cost for 1 Nos

MATERIAL

2398	Coupler 32 mm dia	each	1.00	110.00	110.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
9999	For placing in position and fixing	L.S.	15.48	2.00	30.96
9999	Tapard/Parallel threading charges	L.S.	32.57	2.00	65.14
	TOTAL				206.10 W
	Add 1 % Water charges on "W"				2.06
	TOTAL				208.16 X
	Add GST (multiplying factor 0.1405) on "X"				29.25
	TOTAL				237.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.61
	Total				273.02 Z
	Add Cess @ 1% on "Z"				2.73
	Total				275.75
	Cost of 1 no				275.75
	Say				275.75
5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.				
5.43.1	200 mm wide.				
	Detail of cost for 1 metre				
	MATERIAL				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	1.60	275.00	440.00
8647	Stainless steal screws 30mm x4mm.	100 nos	0.06	32.00	1.92
9977	Carriage of material	L.S.	1.30	2.00	2.60
	LABOUR				
0013	Blacksmith 2nd class	day	0.067	374.50	25.09
0017	Beldar	day	0.067	320.83	21.50
9999	Sundries	L.S.	2.34	2.00	4.68
	TOTAL				495.79 W
	Add 1 % Water charges on "W"				4.96
	TOTAL				500.74 X
	Add GST (multiplying factor 0.1405) on "X"				70.35
	TOTAL				571.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.66
	Total				656.76 Z
	Add Cess @ 1% on "Z"				6.57
	Total				663.33
	Cost of 1 metre				663.33
	Say				663.35
5.43.2	300 mm wide.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 1 metre				
	MATERIAL				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	2.40	275.00	660.00
8647	Stainless steal screws 30mm x4mm.	100 nos	0.06	32.00	1.92
9977	Carriage of material	L.S.	1.30	2.00	2.60
	LABOUR				
0013	Blacksmith 2nd class	day	0.067	374.50	25.09
0017	Beldar	day	0.067	320.83	21.50
9999	Sundries	L.S.	2.34	2.00	4.68
	TOTAL				715.79 W
	Add 1 % Water charges on "W"				7.16
	TOTAL				722.94 X
	Add GST (multiplying factor 0.1405) on "X"				101.57
	TOTAL				824.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				123.68
	Total				948.20 Z
	Add Cess @ 1% on "Z"				9.48
	Total				957.68
	Cost of 1 metre				957.68
	Say				957.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.44	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge. (Material shall confirm to ASTM 6063).				
5.44.1	Floor Joint of 100 mm gap Details of Cost of 1 metre. MATERIALS :				
2403	Floor Joint of 100 mm	Metre	1.00	3100.00	3100.00
2402	Epoxy adhesive	KG	4.25	150.00	637.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				4106.82 W
	Add 1 % Water charges on "W"				41.07
	TOTAL				4147.89 X
	Add GST (multiplying factor 0.1405) on "X"				582.78
	TOTAL				4730.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				709.60
	Total				5440.27 Z
	Add Cess @ 1% on "Z"				54.40
	Cost of 1 metre.				5494.68
	Say				5494.70
5.44.2	Floor Joint of 150 mm gap				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of Cost of 1 metre.				
	MATERIALS :				
2404	Floor Joint of 150 mm	Mette	1.00	4000	4000.00
2402	Epoxy adhesive	KG	4.50	150.00	675.00
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				5044.32 W
	Add 1 % Water charges on "W"				50.44
	TOTAL				5094.77 X
	Add GST (multiplying factor 0.1405) on "X"				715.81
	TOTAL				5810.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				871.59
	Total				6682.17 Z
	Add Cess @ 1% on "Z"				66.82
	Cost of 1 metre.				6748.99
	Say				6749.00

5.44.3 Floor Joint of 200 mm gap

Details of Cost of 1 metre.

MATERIALS :

2405	Floor Joint of 200 mm	metre	1.00	5400.00	5400.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				6481.82 W
	Add 1 % Water charges on "W"				64.82
	TOTAL				6546.64 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				919.80
	TOTAL				7466.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				1119.97
	Total				8586.41 Z
	Add Cess @ 1% on "Z"				85.86
	Cost of 1 metre.				8672.28
	Say				8672.30

5.45 Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063.)

5.45.1 Wall Joint of 100 mm gap

Details of Cost of 1 metre.

MATERIALS :

2409	Wall Joint of 100 mm	metre	1.00	2400.00	2400.00
2402	Epoxy adhesive	kg	4.25	150.00	637.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				3406.82 W
	Add 1 % Water charges on "W"				34.07
	TOTAL				3440.89 X
	Add GST (multiplying factor 0.1405) on "X"				483.45
	TOTAL				3924.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				588.65
	Total				4512.99 Z
	Add Cess @ 1% on "Z"				45.13
	Cost of 1 metre.				4558.12
	Say				4558.10

5.45.2 Wall Joint of 150 mm gap

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of Cost of 1 metre.				
	MATERIALS :				
2410	Wall Joint of 150 mm	metre	1.00	2800.00	2800.00
2402	Epoxy adhesive	kg	4.50	150.00	675.00
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				3844.32 W
	Add 1 % Water charges on "W"				38.44
	TOTAL				3882.77 X
	Add GST (multiplying factor 0.1405) on "X"				545.53
	TOTAL				4428.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				664.24
	Total				5092.54 Z
	Add Cess @ 1% on "Z"				50.93
	Cost of 1 metre.				5143.47
	Say				5143.45

5.45.3 Wall Joint of 200 mm gap

Details of Cost of 1 metre.

MATERIALS :

2411	Wall Joint of 200 mm	metre	1.00	3400.00	3400.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				4481.82 W
	Add 1 % Water charges on "W"				44.82
	TOTAL				4526.64 X
	Add GST (multiplying factor 0.1405) on "X"				635.99
	TOTAL				5162.64 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				774.40
	Total				5937.03 Z
	Add Cess @ 1% on "Z"				59.37
	Cost of 1 metre.				5996.40
	Say				5996.40

- 5.46 Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of EngineerIn-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's preengineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.**

5.46.1 Roof Joint of 100 mm gap

Details of Cost of 1 metre.

MATERIALS :

2399	Complete Roof Joint of 100 mm	metre	1.00	2800.00	2800.00
2402	Epoxy adhesive	kg	4.25	150.00	637.50
9977	Carriage	L.S.	124.90	2.00	249.80
LABOUR :					
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				3806.82 W
	Add 1 % Water charges on "W"				38.07
	TOTAL				3844.89 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				540.21
	TOTAL				4385.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				657.77
	Total				5042.87 Z
	Add Cess @ 1% on "Z"				50.43
	Cost of 1 metre.				5093.29
	Say				5093.30
5.46.2	Roof Joint of 150 mm gap				
	Details of Cost of 1 metre.				
	MATERIALS :				
2400	Complete Roof Joint of 150 mm	metre	1.00	3200.00	3200.00
2402	Epoxy adhesive	kg	4.50	150.00	675.00
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				4244.32 W
	Add 1 % Water charges on "W"				42.44
	TOTAL				4286.77 X
	Add GST (multiplying factor 0.1405) on "X"				602.29
	TOTAL				4889.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				733.36
	Total				5622.42 Z
	Add Cess @ 1% on "Z"				56.22
	Cost of 1 metre.				5678.64
	Say				5678.65
5.46.3	Roof Joint of 200 mm gap				
	Details of Cost of 1 metre.				
	MATERIALS :				
2401	Complete Roof Joint of 200 mm	metre	1.00	4000.00	4000.00
2402	Epoxy adhesive	kg	4.75	150.00	712.50
9977	Carriage	L.S.	124.90	2.00	249.80
	LABOUR :				
0012	Blacksmith 1st class	day	0.05	476.00	23.80
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.15	320.83	48.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5081.82 W
	Add 1 % Water charges on "W"				50.82
	TOTAL				5132.64 X
	Add GST (multiplying factor 0.1405) on "X"				721.14
	TOTAL				5853.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				878.07
	Total				6731.85 Z
	Add Cess @ 1% on "Z"				67.32
	Cost of 1 metre.				6799.16
	Say				6799.15
5.47	Providing and fixing in position factory made precast RCC M-40 fixing with hold fast embedded in 1:3:6 concrete block for doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc all complete, as per the direction of Engineer in charge. The frame shall be measured in running meter correct to two places of decimal.				
5.47.1	Door frame 125 mmx 60 mm				
	Details of cost for 5.20 metre.				
	MATERIAL				
5.33.1	Rate as per Item No.5.33.1 of SH: REINFORCED CEMENT CONCRETE	cum	0.039	6934.90	270.46 P
5.34.3	Rate as per Item No.5.34.3 of SH:REINFORCED CEMENT CONCRETE	cum	0.039	209.30	8.16 Q
	Extra for scatter and smaller work @25 % (P + Q) x 0.25				69.66 R
1005	Twisted steel/ deformed bars	quintal	0.0468	4600.00	215.28
596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	0.60	56.00	33.60
4.3.3	Rate as per Item No.4.3.3 of SH: CONCRETE	sqm	1.27	514.75	653.73 A
	WORK				
14.2.1	Rate as per Item No.14.2.1 of SH: REPAIRS TO BUILDINGS	each	1.00	883.05	883.05 A
13.48.2	Rate as per Item No.13.48.2 of SH. FINISHING	sqm	1.27	94.30	119.76 A
9999	Sundries	L.S.	100.67	2.00	201.34
	TOTAL				2455.05 W
	Add 1 % Water charges on "W-P,Q,R & A"	450.22			4.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2459.55 X
	Add GST (multiplying factor 0.1405) on "X-P,Q,R & A"	454.72			63.89
	TOTAL				2523.44 Y
	Add 15 % Contractor's profit and overheads on "Y-PQ& A"	518.61			77.79
	Total				2601.23 Z
	Add Cess @ 1% on "Z-PQ& A"	596.40			5.96
	Cost of 5.20 metre				2607.19
	Cost of 1 metre				501.38
	Say				501.40
5.47.2	Door frame 100 mmx 60 mm				
	Details of cost for 5.20 metre.				
	MATERIAL				
5.33.1	Rate as per Item No.5.33.1 of SH: REINFORCED CEMENT CONCRETE	cum	0.031	6934.90	214.98 P
5.34.3	Rate as per Item No.5.34.3 of SH: REINFORCED CEMENT CONCRETE	cum	0.031	209.30	6.49 Q
	Extra for scatter and smaller work @25 % (P + Q) x 0.25				55.37 R
1005	Twisted steel/ deformed bars	quintal	0.0372	4600.00	171.12
596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	0.60	56.00	33.60
4.3.3	Rate as per Item No.4.3.3 of SH: CONCRETE	sqm	1.14	514.75	586.81 A
	WORK				
14.2.1	Rate as per Item No.14.2.1 of SH: REPAIRS TO BUILDINGS	each	1.00	883.05	883.05 A
13.48.2	Rate as per Item No.13.48.2 of SH. FINISHING	sqm	1.14	94.30	107.51 A
9999	Sundries	L.S.	100.67	2.00	201.34
	TOTAL				2260.27 W
	Add 1 % Water charges on "W-P,Q,R &A"	406.06			4.06
	TOTAL				2264.33 X
	Add GST (multiplying factor 0.1405) on "X-P,Q,R &A"	410.12			57.62
	TOTAL				2321.95 Y
	Add 15 % Contractor's profit and overheads on "Y-PQ&A"	467.74			70.16
	Total				2392.11 Z
	Add Cess @ 1% on "Z-PQ&A"	537.90			5.38
	Cost of 5.20 metre				2397.49
	Cost of 1 metre				461.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				461.05
5.47.3	Door frame 85 mmx60 mm				
	Details of cost for 5.20 metre.				
	MATERIAL				
5.33.1	Rate as per Item No.5.33.1 of SH: REIN- FORCED CEMENT CONCRETE	cum	0.027	6934.90	187.24 P
5.34.2	Rate as per Item No.5.34.2 of SH: REINFORCED CEMENT CONCRETE	cum	0.027	139.55	3.77 Q
	Extra for scatter and smaller work @25 % (P + Q) x 0.25				47.75 R
1005	Twisted steel/ deformed bars	quintal	0.0324	4600.00	149.04
596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	0.6	56.00	33.60
4.3.3	Rate as per Item No.4.3.3 of SH: CONCRETE	sqm	1.07	514.75	550.78 A
	WORK				
14.2.1	Rate as per Item No.14.2.1 of SH: REPAIRS TO BUILDINGS	each	1.00	883.05	883.05 A
13.48.2	Rate as per Item No.13.48.2 of SH. FINISHING	sqm	1.07	94.30	100.90 A
9999	Sundries	L.S.	100.67	2.00	201.34
	TOTAL				<u>2157.48 W</u>
	Add 1 % Water charges on "W-P,Q,R &A"	383.98			3.84
	TOTAL				<u>2161.32 X</u>
	Add GST (multiplying factor 0.1405) on "X- P,Q,R &A"	387.82			54.49
	TOTAL				<u>2215.80 Y</u>
	Add 15 % Contractor's profit and overheads on "Y-PQ&A"	442.31			66.35
	Total				<u>2282.15 Z</u>
	Add Cess @ 1% on "Z-PQ&A"	508.65			5.09
	Cost of 5.20 metre				<u>2287.24</u>
	Cost of 1 metre				439.85
	Say				439.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.48	Providing and laying Reinforced cement concrete for construction of piers, abutments, portal frames, pier caps and bearing pedestals and seismic arresters over pier/ abutment caps at all locations with specified grade using Ordinary Portland Cement (conforming to strength requirement of IS:8112) including the cost of steel centering and shuttering etc. complete including testing of materials etc. for casting pier & pier cap in one/two stage, necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts and depths true to level and position but excluding the cost of providing reinforcement. Reinforcement shall be measured and paid separately. Note:- Cement content considered in this item is 480 Kg./ Cum. Excess/ less cement used as per design mix is payable/ recoverable separately.				
5.48.1	Reinforced Cement Concrete -M-50 Detail of cost for 120 cum. MATERIAL				
5.48X	Sub Analysis no 5.48X (Annexure) for item 5.48.1	each	1.00	586543.40	586543.40 P
	Providing M 50 grade reinforced Cement				64519.77
	Concrete data (lot) for 120.00 cum				
	Add 11 per cent of cost of material, labour and machinery for form work $P \times 11 / 100 = 608808.70 \times 11 / 100$				
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift $P \times 1.4 / 100 = 608808.70 \times 1.4 / 100$				8211.61
	TOTAL				659274.78 W
	Add 1 % Water charges on "W"				6592.75
	TOTAL				665867.53 X
	Add GST (multiplying factor 0.1405) on "X"				93554.39
	TOTAL				759421.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				113913.29
	Total				873335.21 Z
	Add Cess @ 1% on "Z"				8733.35
	Cost of 120 cum				882068.56
	Rate of 1 cum				7350.57
	Say				7350.55
5.48.2	Reinforced Cement Concrete -M-60 Detail of cost for 120 cum. MATERIAL				
5.48Y	Sub Analysis no 5.48Y (Annexure) for item 5.48.2	each	1.00	686801.60	686801.60 P
	Providing M 60 grade reinforced Cement				75548.18
	Concrete data (lot) for 120.00 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 11 per cent of cost of material, labour and machinery for formwork $P \times 11 / 100 = 709546.30 \times 11 / 100$				
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift $P \times 1.4 / 100 = 709546.30 \times 1.4 / 100$				9615.22
	TOTAL				771965.00 W
	Add 1 % Water charges on "W"				7719.65
	TOTAL				779684.65 X
	Add GST (multiplying factor 0.1405) on "X"				109545.69
	TOTAL				889230.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				133384.55
	Total				1022614.89 Z
	Add Cess @ 1% on "Z"				10226.15
	Cost of 120 cum				1032841.04
	Rate of 1 cum				8607.01
	Say				8607.00

5.48.3 Extra for using M -50/ M60 Grade Self-compacting Cement Concrete

Detail of cost for 1 cum.

MATERIAL

5.48	Sub Analysis no 5.48 (Annexure) for sub analysis 5.48.3X	each	1.00	9363.55	9363.55
5.48.2	Rate as per Item No.5.48.2 of SH: REINFORCED CEMENT CONCRETE	cum	-1.00	8607.00	(8607.00)
	TOTAL				756.55
	Rate of 1 cum				756.55
	Say				756.55

5.48.3X M 60 grade Self-compacting Reinforced Cement Concrete

Detail of cost for 120 cum.

MATERIAL

5.48Z	Sub Analysis no 5.48Z (Annexure) for sub analysis 5.48.3X	each	1.00	747170.85	747170.85 P
	Providing M 60 grade reinforced Cement Concrete data (lot) for 120.00 cum				82188.79
	Add 11 per cent of cost of material, labour and machinery for formwork $P \times 11 / 100 = 769342.10 \times 11 / 100$				
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift $P \times 1.4 / 100 = 769342.10 \times 1.4 / 100$				10460.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				839820.03 W
	Add 1 % Water charges on "W"				8398.20
	TOTAL				848218.23 X
	Add GST (multiplying factor 0.1405) on "X"				119174.66
	TOTAL				967392.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				145108.93
	Total				1112501.83 Z
	Add Cess @ 1% on "Z"				11125.02
	Cost of 120 cum				1123626.85
	Rate of 1 cum				9363.56
	Say				9363.55
5.48X	Annexure for item 5.48.1, Providing M50 grade Reinforced Cement Concrete data for 120.00 cum				
	Sub Analysis for use in Item no 5.48.1 Details of cost for each lot of 120 cum.				
	RCC Grade M50				
	Unit = 1 cum				
	Taking output = 120 cum MATERIALS :				
367	Portland Cement	tonne	57.60	4940.00	284544.00
982	Coarse sand	cum	54.00	1350.00	72900.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.80	1350.00	87480.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.20	1350.00	58320.00
7318	Plasticizer / super plasticizer	kilogram	223.20	36.00	8035.20
	LABOUR :				
0028	Mate	day	0.94	320.83	301.58
0023	Mason (brick layer) 1 st class	day	3.50	476.00	1666.00
0017	Beldar	day	20.00	320.83	6416.60
	MACHINERY :				
066	Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2400.00	3840.00
070	Generator 100 KVA/125 KVA	hour	1.60	250.00	400.00
052	Front end loader 1 cum bucket capacity	hour	1.60	900.00	1440.00
	(incl POL)				
	Distance = 10 km				
	Qty= 120.00 cum				
	Total = 120.00x 10= 1200				
029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	210.00	25200.00
	TOTAL				586543.38
	Cost of each lot of 120 cum.				586543.38
	Say				586543.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.48Y	Annexure for items 5.48.2 for using M 60 grade Self Compacting Reinforced cement concrete data for 120.00 cum				
	Sub Analysis for use in Item no 5.48.2				
	Detail of cost for each				
	RCC Grade M60				
	Unit = 1 cum				
	Taking output = 120 cum MATERIALS :				
367	Portland Cement	tonne	57.60	4940.00	284544.00
982	Coarse sand	cum	54.98	1350.00	74223.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	57.54	1350.00	77679.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	38.22	1350.00	51597.00
7318	Plasticizer / super plasticizer	kilo gram	230.40	36.00	8294.40
8953	Micro Silica	kg	3600.00	32.00	115200.00
	LABOUR :				
0028	Mate	day	0.94	320.83	301.58
0023	Mason (brick layer) 1 st class	day	3.50	476.00	1666.00
0017	Beldar	day	20.00	320.83	6416.60
	MACHINERY :				
066	Batching and Mixing Plant @ 75 cum per hou	hour	1.60	2400.00	3840.00
070	Generator 100 KVA/125 KVA	hour	1.60	250.00	400.00
052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.60	900.00	1440.00
	Distance = 10 km				
	Qty= 120.00 cum				
	Total = 120.00x 10= 1200				
029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	210.00	25200.00
	TOTAL				686801.58
	Cost of each.				686801.58
	Say				686801.60
5.48Z	Annexure for items 5.48.3. Extra for using M 60 grade Self Compacting Reinforced cement concrete data for 120.00 cum				
	Sub Analysis for use in Item no 5.48.3X Details of cost for each.				
	RCC Grade M60 self compacting concrete				
	Using Batching Plant, Transit Mixer and Concrete Pump				
	Unit ; cum				
	Taking Output = 120 cum MATERIALS :				
367	Portland Cement	tonne	57.60	4940.00	284544.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
982	Coarse sand	cum	54.00	1350.00	72900.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.80	1350.00	87480.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.20	1350.00	58320.00
7318	Plasticizer / super plasticizer	kilogram	230.40	36.00	8294.40
8953	Micro Silica	kg	5040.00	32.00	161280.00
	LABOUR :				
0028	Mate	day	0.84	320.83	269.50
0023	Mason (brick layer) 1 st class	day	3.00	476.00	1428.00
0017	Beldar	day	18.00	320.83	5774.94
	MACHINERY :				
066	Batching and Mixing Plant @ 75 cum per hour	hour	1.60	2400.00	3840.00
070	Generator 100 KVA/125 KVA	hour	1.60	250.00	400.00
052	Front end loader 1 cum bucket capacity (incl POL) Distance = 10 km Qty= 120.00 cum Total = 120.00x 10= 1200	hour	1.60	900.00	1440.00
029	Carriage of concrete by transit mixer	km/cum	1200.00	30.00	36000.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.00	210.00	25200.00
	TOTAL				747170.84
	Cost of each.				747170.84
	Say				747170.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.49	Constructing cast-in situ RCC diaphragm wall by providing and laying machine batched, machine mixed, self compacting, ready mix reinforced cement concrete, tramie controlled, of M 30 grade using minimum 400 kg. cement per cum of concrete including providing and mixing required admixtures in recommended proportions as per IS : 9103, as approved by the Engineer-in-charge, for achieving 150- 200mm slump, for diaphragm wall having thickness as per approved structural design not exceeding 600 mm, in pannels of required depth and lengths as per approved drawing, including constructing necessary guide walls as required and as specified including boring in all kinds of soils and rocks, including working in or under water and / or liquid mud, in foul conditions and pumping or bailing out of water and removing slush, including disposal of earth/ rock / slush etc. for all leads and all lifts, including preparing, providing and re-circulating bentonite slurry in the trench as and when required for all depths, including agitating bentonite slurry during trenching etc., providing and fixing stop ends or form tubes, upto the required depth of diaphragm wall including extracting the same after casting, including chipping off the bentonite adulterated concrete or unsound concrete up to the cut off level for obtaining the sound concrete, dressing undulations on the exposed face of diaphragm wall after excavation by chipping / chiseling etc. including filling the depression/ cavities with sound concrete etc. complete and as directed by the Engineer-in-charge, including providing recess for bearing plates and fixing insert boxes for inclined rock anchors etc. complete as per the specifications and approved design and as directed by the Engineer-in-charge, but excluding the cost of reinforcement and inserts. (rates include cost of all inputs of labour, material and T & P, cost of handling, lifting & placing in position the reinforcement cage in the trench, including the additional cost of welding the reinforcement bars etc. involved in the work and all other incidental expenditure for completing the work as directed by the Engineer-in-charge), However, the actual area of the diaphragm wall, correct to two places of decimal, from design bottom level to the design cut off level (including portion anchored in the rock upto the design bottom level) only shall be measured for payment. "Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.				
	Details of cost for 144.0 cum. Analysis for 20x12=240 Sqmt area of diaphragm wall Average depth 12 m Thickness 0.60 m Total Quantity 20 mx12 m x0.6 m = 144.00				
077	Excavation of Diaphragm wall by Mechanical Grab	sqm	240.00	1300.00	312000.00
	Guide wall RCC 1:2:4 RCC 2x20x(0.45+1.5)x.15 = 11.70 cum				
5.1.3	Rate as per Item No.5.1.3 of SH: REINFORCED CEMENT CONCRETE Reinforcement@ 70 kg/Cum for guide wall=	cum	11.70	6234.10	72938.99 A
	11.70x 70 kg/cum= 819 kg				
5.22.6	Rate as per Item No.5.22.6 of SH: REINFORCED CEMENT CONCRETE	kilogram	819.00	76.85	62941.63 A
	Add for chipping/dismantling top 50 cm contaminated concrete =20 x 0.50 x 0.60= 6.00 cum RMC M-30 as per qty=144.00 cum Add 10% extra for bulges etc. i.e. 14.40 cum Total=144.00+6.00+14.40= 164.40 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.33.1	Rate as per Item No.5.33.1 of SH: REINFORCED CEMENT CONCRETE	cum	164.40	6934.90	1140097.76 A
5.34.1	Rate as per Item No.5.34.1 of SH: REINFORCED CEMENT CONCRETE Bentonite @6% of RCC qty Total Qty= 164.4x06x1400/100= 13810 kg= 13.81 tonne	cum	164.40	69.75	11467.65 A
7183	Bentonite Add 10 %extra cement due to concreting under water 164.4x420x0.10=6.90 tonne	tonne	13.81	2960.00	40877.60
367	Portland Cement Add cement for grouting of wall using nozzles etc.- 240 sqm @ 0.10 quintal/sqm =2.40 tonne	tonne	6.90	4940.00	34086.00
367	Portland Cement	tonne	2.40	4940.00	11856.00
2209	Carriage of Cement	tonne	2.40	94.34	226.41
025	Hire and running charges of light crane Reinforcement @220 kg/cum 164.4x220kg/cum=36168 kg Extra reinforcement for hooks @ 5% of cage 1808.4 kg Total=1808.4 kg=18.084 qtl	day	1.00	3000.00	3000.00
1005	Twisted steel/ deformed bars Extra for welding reinforcement cage Reinforcement @ 200 C/C 2 x 101 x 61 = 6161 joints Welding for alternate joint say 50 % joints 6161 cm	quintal	18.08	4600.00	83186.40
10.22	Rate as per Item No.10.22 of SH: STEEL WORK	cm	6161.00	3.35	20649.23 A
9999	Labour for grouting diaphragm wall under pressure i/c fixing nozzle etc Add for use retarders / plasticizers for the diaphragm wall concreting using trimme @ 0.4 % cement qty = (164.4 x 420 x 0.4)/ 100=276.1	L.S.	23530.00	2.00	47060.00
7318	Plasticizer / super plasticizer	kilo gram	276.19	36.00	9942.84
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	240.00	4.50	1080.00
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	240.00	72.00	17280.00
026	Hire and running charges of bentonite pump Bentonite powder @ 6% of R.C.C. Qty = (164.4 Cum x 0.06)=9.864 cum 9.864 cum x 1400 kg/cum = 13809.6 kg Disposal of bentonite muck Slurry / Muck vol. 49.32 cum Disposal of bentonite muck	day	2.00	3500.00	7000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Slurry / Muck vol. 49.32 cum				
	Add excavated earth = 144.00 cum				
	Total= 144.00 + 49.32 = 193.32 cum				
15.60	Rate as per Item No.15.60 of SH: DISM	cum	193.32	142.00	27450.55 A
	ANTLING & DEMOLISHING				
	Disposal of Chipping / Dismantling of contaminated concrete and guide wall etc. with all leads as per item no. 15.3 = 2x(20x0.50x0.60) + 15.00 cum = 20.40 cum				
15.3	Rate as per Item No.15.3 of SH: DISM	cum	20.40	1465.35	29893.12 A
	ANTLING & DEMOLISHING				
9999	Sundries (Extra for concreting by Trimme)	L.S.	1177	2	2354.00
9999	Sundries (Design Charges)	L.S.	19200	2	38400.00
	TOTAL				1973788.19 W
	Add 1 % Water charges on "W-A"		608349.25		6083.49
	TOTAL				1979871.68 X
	Add GST (multiplying factor 0.1405) on "X-A"		614432.74		86327.80
	TOTAL				2066199.48 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		700760.54		105114.08
	Total				2171313.56 Z
	Add Cess @ 1% on "Z-A"		805874.63		8058.75
	Cost of 144.0 cum				2179372.31
	Rate of 1 cum				15134.53
	Say				15134.55

SUB HEAD : 6.0

BRICK WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Nos			
3.9	Rate as per item No 3.9 of SH: Mortar	cum	0.25	3815.05	953.76
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				4131.91 W
	Add 1 % Water charges on "W"				41.32
	TOTAL				4173.23 X
	Add GST (multiplying factor 0.1405) on "X"				586.34
	TOTAL				4759.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				713.94
	Total				5473.51 Z
	Add Cess @ 1% on "Z"				54.74
	Cost of 1 Cum.				5528.24
	Say				5528.25
6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 6 (1 cement : 6 coarse sand) (Rate as per item No 3.11)	Nos			0.00
3.11	Rate as per Item No.3.11 of SH: Mortar	cum	0.25	3160.60	790.15
9999	Sundries	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				3968.30 W
	Add 1 % Water charges on "W"				39.68
	TOTAL				4007.99 X
	Add GST (multiplying factor 0.1405) on "X"				563.12
	TOTAL				4571.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				685.67
	Total				5256.77 Z
	Add Cess @ 1% on "Z"				52.57
	Cost of 1 Cum.				5309.34
	Say				5309.35

6.2 Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:

6.2.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Details of cost for 1 cum

	MATERIAL				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	0.487	4000.00	1948.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				0.00
3.9	Rate as per item No 3.9 of SH: Mortar	cum	0.22	3815.05	839.31
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				0.00
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				3589.84 W
	Add 1 % Water charges on "W"				35.90
	TOTAL				3625.74 X
	Add GST (multiplying factor 0.1405) on "X"				509.42
	TOTAL				4135.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				620.27
	Total				4755.43 Z
	Add Cess @ 1% on "Z"				47.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 Cum.				4802.99
	Say				4803.00
6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).				
	Details of cost for 1 cum				
	MATERIAL				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	0.487	4000.00	1948.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.22	3160.60	695.33
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				0.00
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				3445.86 W
	Add 1 % Water charges on "W"				34.46
	TOTAL				3480.32 X
	Add GST (multiplying factor 0.1405) on "X"				488.99
	TOTAL				3969.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				595.40
	Total				4564.71 Z
	Add Cess @ 1% on "Z"				45.65
	Cost of 1 Cum.				4610.35
	Say				4610.35

6.3 Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :

6.3.1 With F.P.S.(non modular) bricks

Details of cost for 1 cum

MATERIAL

7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	0.494	4700.00	2321.80
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				0.00
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.25	3160.60	790.15
9999	Sundries	L.S.	2.73	2	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4705.87 W
	Add 1 % Water charges on "W"				47.06
	TOTAL				4752.93 X
	Add GST (multiplying factor 0.1405) on "X"				667.79
	TOTAL				5420.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				813.11
	Total				6233.83 Z
	Add Cess @ 1% on "Z"				62.34
	Cost of 1 Cum.				6296.16
	Say				6296.15

6.3.2 With Modular bricks

Details of cost for 1 cum

MATERIAL

7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	0.487	5200.00	2532.4
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.8275684
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.22	3160.60	695.3329282
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.44	476.00	209.44
0024	Mason (brick layer) 2nd class	day	0.44	374.50	164.78
0018	Coolie	day	1.43	320.83	458.7869
0011	Bhisti	day	0.18	320.83	57.7494
9999	Scaffolding	L.S.	16.38	2.00	32.76
	Extra labour element required for lifting of materials (above floor two level upto floor				
0018	Coolie	day	1.13	320.83	362.5379
	TOTAL				4657.07 W
	Add 1 % Water charges on "W"				46.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				4703.65	X
	Add GST (multiplying factor 0.1405) on "X"				660.86	
	TOTAL				5364.51	Y
	Add 15 % Contractor's profit and overheads on "Y"				804.68	
	Total				6169.18	Z
	Add Cess @ 1% on "Z"				61.69	
	Cost of 1 Cum.				6230.88	
	Say				6230.90	
6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)					
	Details of cost for 1 cum					
	MATERIAL					
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00	
3.9	Cement mortar 1 : 4 (1 cement : 4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3815.05	953.76	
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81	
9999	Sundries	L.S.	2.73	2.00	5.46	
	LABOUR					
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72	
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02	
	"Extra labour element required for lifting of materials (above floor two level upto floor five level)"					
0018	Coolie	day	1.80	320.83	577.49	
0011	Bhisti	day	0.20	320.83	64.17	
9999	Scaffolding	L.S.	22.36	2.00	44.72	
0018	Coolie	day	1.13	320.83	362.54	
	TOTAL				4770.68	W
	Add 1 % Water charges on "W"				47.71	
	TOTAL				4818.39	X
	Add GST (multiplying factor 0.1405) on "X"				676.98	
	TOTAL				5495.37	Y
	Add 15 % Contractor's profit and overheads on "Y"				824.31	
	Total				6319.68	Z
	Add Cess @ 1% on "Z"				63.20	
	Cost of 1 Cum.				6382.88	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				6382.90
6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1 : 6	1000 Nos	0.494	4500.00	2223.00
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4607.07
	Add 1 % Water charges on "W"				46.07
	TOTAL				4653.14
	Add GST (multiplying factor 0.1405) on "X"				653.77
	TOTAL				5306.91
	Add 15 % Contractor's profit and overheads on "Y"				796.04
	Total				6102.95
	Add Cess @ 1% on "Z"				61.03
	Cost of 1 Cum.				6163.98
	Say				6164.00
6.5	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 5.3 cum per four floors .				
037	Mobile crane	day	0.125	7500.00	937.5
	TOTAL				937.5 W
	Add 1 % Water charges on "W"				9.38
	TOTAL				946.88 X
	Add GST (multiplying factor 0.1405) on "X"				133.04
	TOTAL				1079.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.99
	Total				1241.90 Z
	Add Cess @ 1% on "Z"				12.42
	Cost of 5.3 Cum.				1254.32
	Cost for 1 cum				236.66
	Say				236.65
6.6	Extra for forming cavity 5 cm to 11.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M .S. ties 300 mm long of 25x3 mm section at not less than 3 ties per sqm as per approved design.				
	Details of cost for 10sqm.				
	MATERIAL				
	Mild steel 25mmx3mm section 30cm long				
	30 No. = 9 metres @ 0.6kg/m = 5.40 kg				
1008	Flats upto 10 mm in thickness	quintal	0.054	4500.00	243
9999	Painting the steel Bitumen	L.S.	13.52	2.00	27.04
2205	Carriage of Steel	tonne	0.005	94.34	0.47
	Extra labour for keeping cavity clear and fixing wall ties and delay caused:				
0023	Mason (brick layer) 1st class	day	0.37	476.00	176.12
0024	Mason (brick layer) 2nd class	day	0.37	374.50	138.57
0017	Beldar	day	0.92	320.83	295.16
9999	Add for use of Core	L.S.	4.55	2.00	9.10
	TOTAL				889.46 W
	Add 1 % Water charges on "W"				8.89
	TOTAL				898.35 X
	Add GST (multiplying factor 0.1405) on "X"				126.22
	TOTAL				1024.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.69
	Total				1178.26 Z
	Add Cess @ 1% on "Z"				11.78
	Cost for 10 sqm.				1190.04
	Cost for 1 sqm.				119.00
	Say				119.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.7	Providing half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 Cement : 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10 cm / 11.4 cm wide bitumen felt type 3 grade 1. Details of cost for 10m length MATERIAL Half brick masonry 1:3 (Average) $1 \times 10 \times 0.27 = 2.7$				
6.12.1	Rate as per item No. 6.12.1 of SH: Brick Work	sqm	2.70	680.40	1837.07 A
	Bitumen felt type- 3 grade 1 $1 \times 10 \text{m} \times 11.4 \text{m}$ = 1.14 sqm. Add for wastage and overlapping @ 5% = 0.06 sqm.				
	Total = 1.20 sqm				
322	Bitumen felt :Type 3 grade 1	sqm	1.20	70.00	84.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.06	320.83	19.25
	TOTAL				2042.38 W
	Add 1 % Water charges on "W-A"	205.31			2.05
	TOTAL				2044.44 X
	Add GST (multiplying factor 0.1405) on "X-A"	207.36			29.13
	TOTAL				2073.57 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	236.50			35.47
	Total				2109.05 Z
	Add Cess @ 1% on "Z-A"	271.97			2.72
	Cost of 10 metre				2111.77
	Cost for 1 metre				211.18
	Say				211.20
6.8	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level. Details of cost for 10sqm. MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	0.377	4500.00	1696.50
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.181	4469.50	808.98
2201	Carriage of Bricks	1000 ..	0.377	283.01	106.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR	Nos			
0023	Mason (brick layer) 1st class	day	0.72	476.00	342.72
0024	Mason (brick layer) 2nd class	day	0.72	374.50	269.64
0018	Coolie	day	1.76	320.83	564.66
0011	Bhisti	day	0.36	320.83	115.50
9999	Sundries and scaffolding	L.S.	7.15	2.00	14.30
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.29	320.83	413.87
	TOTAL				4332.87 W
	Add 1 % Water charges on "W"				43.33
	TOTAL				4376.19 X
	Add GST (multiplying factor 0.1405) on "X"				614.86
	TOTAL				4991.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				748.66
	Total				5739.71 Z
	Add Cess @ 1% on "Z"				57.40
	Cost for 10 sqm.				5797.10
	Cost for 1 sqm.				579.71
	Say				579.70
6.9	Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).				
	Details of cost for 1 cum.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	0.494	4500.00	2223.00
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4469.50	1117.38
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
9999	Sundries	L.S.	2.73	2.00	5.46
	Centring and shuttering				
	Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick Area of centering = $3.142 \times 1.8 \times 3.6 = 20.37$ sqm. Brick work in Arch = $3.142 \times 2.00 \times 0.4 \times 3.6 = 9.05$ cum. Area per cum = $20.37 / 9.05 = 2.25$ sqm				
5.9.9	Rate as per item no 5.9.9 of SH : Reinforced cement concrete work	sqm	2.25	1190.75	2679.188417 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding LABOUR	L.S.	18.85	2.00	37.70
0023	Mason (brick layer) 1st class	day	0.53	476.00	252.28
0024	Mason (brick layer) 2nd class	day	0.53	374.50	198.49
0018	Coolie	day	2.29	320.83	734.70
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				7814.70
	Add 1 % Water charges on "W-A"	5135.51			51.36
	TOTAL				7866.06
	Add GST (multiplying factor 0.1405) on "X- Δ"	5186.87			728.76
	TOTAL				8594.81
	Add 15 % Contractor's profit and overheads on "Y-A"	5915.62			887.34
	Total				9482.16
	Add Cess @ 1% on "Z-A"	6802.97			68.03
	Cost for 1 cum.				9550.19
	Say				9550.20

6.10 Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 meters with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.

Details of cost for 1 cum.

MATERIAL

2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	0.538	4500.00	2421.00
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4469.50	1117.38
2201	Carriage of Bricks	1000 Nos	0.538	283.01	152.26
9999	Sundries	L.S.	2.73	2.00	5.46
	Centring and shuttering (Area same as in item No. 6.9)				
5.9.9	Rate as per item no 5.9.9 of SH : Reinforced cement concrete work	sqm	2.25	1190.75	2679.19
9999	Scaffolding	L.S.	18.85	2.00	37.70
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	1.13	476.00	537.88
0024	Mason (brick layer) 2nd class	day	1.13	374.50	423.19
0018	Coolie	day	4.42	320.83	1418.07
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				9218.82 W
	Add 1 % Water charges on "W-A"	6539.63			65.40
	TOTAL				9284.22 X
	Add GST (multiplying factor 0.1405) on "X-A"	6605.03			928.01
	TOTAL				10212.22 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	7533.04			1129.96
	Total				11342.18 Z
	Add Cess @ 1% on "Z-A"	8662.99			86.63
	Cost for 1 cum.				11428.81
	Say				11428.80

6.11 Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).

Details of cost for 33.31 sqm

MATERIAL

Centering and shuttering for arches and carved surface exceeding 6m in span
(an average of 8m)

Radius R = 5m

$2R-2=4+4$

$\tan^{-1}(4/3)=53.28^\circ$

$2 \times 53.28^\circ = 106^\circ$

Surface area $= 2 \times 22/7 \times 5 \times 3.6 \times$

$106/360 = 33.3 \text{sqm.}$

Arc = 9.25m

MATERIAL

Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{cum}$

Struts- $2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{cum.}$

Struts- $2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{cum.}$ Ribs-

$6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{cum.}$

Struts- $2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{cum.}$

Total = 0.476 cum.

For four such frames $= 0.476 \times 4 = 1.904 \text{ cum.}$

laggings- $75 \times 3.6 \times 0.125 \times 0.075 = 2.531 \text{cum.}$

Tie- $2 \times 3.6 \times 0.225 \times 0.038 = 0.062 \text{cum.}$

Brace- $3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Brace-3x4x3.8x0.225x0.038=0.390 Sleepers-4x3.6x0.20x0.15=0.432 Sleepers-2x4x3.6x0.175x0.075=0.378 Vertical post-4x4x3.6x0.15x0.15=1.296 Total = 7.103cum. Qty taken as 1/8th of qty for cost of using once = 7.103/8 = 0.8885 cum (887.90 cudm)				
1197	Second class kail wood in scantling	10 cudm	88.79	260.00	23085.40
2204	Carriage of Timber Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @0.25cm each = 2m Total = 18m @ 3.9kg/m = 70.2 kg. = 0.702qtl. Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.0878 qtl.	cum	0.8879	121.29	107.69
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.160x 0.254x 1.58=64.21 kg=0.64qtl. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 qtl	quintal	0.0878	4120.00	361.74
1034	Bolts and nuts upto 300 mm in length Carriage of steel = 0.1342 t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.0168 tonne	quintal	0.080	4800.00	384.00
2302	Carriage of G.I.sheet and accessories LABOUR	tonne	0.0168	94.34	1.58
0015	Carpenter 2nd class	day	28.00	374.50	10486.00
0017	Beldar	day	24.00	320.83	7699.92
9999	Sundries	L.S.	134.55	2.00	269.10
5.9.9	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span Rate as per item no 5.9.9 of SH : Reinforced cement concrete work	sqm	-33.31	1190.75	-39663.90 A
	TOTAL				2731.54 W
	Add 1 % Water charges on "W-A"	42395.44			423.95
	TOTAL				3155.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	42819.39			6016.12
	TOTAL				9171.62 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	48835.51			7325.33
	Total				16496.95 Z
	Add Cess @ 1% on "Z-A"	56160.84			561.61
	Cost of 33.31sqm.				17058.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per sqm				512.12
	Say				512.10
6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
6.12.1	Cement mortar 1:3 (1 cement : 3 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	0.565	4500.00	2542.50
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand) (Rate as per item No 3.8)	cum	0.28	4469.50	1251.46
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.45	476.00	214.20
0024	Mason (brick layer) 2nd class	day	0.45	374.50	168.53
0018	Coolie	day	1.55	320.83	497.29
0011	Bhisti	day	0.70	320.83	224.58
	TOTAL				5085.50 W
	Add 1 % Water charges on "W"				50.85
	TOTAL				5136.35 X
	Add GST (multiplying factor 0.1405) on "X"				721.66
	TOTAL				5858.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				878.70
	Total				6736.71 Z
	Add Cess @ 1% on "Z"				67.37
	Cost for 10 sqm.				6804.08
	Cost for 1 sqm.				680.41
	Say				680.40

6.12.2 cement mortar 1:4 (1 cement : 4 coarse sand)

Details of cost for 10 sqm.

MATERIAL

2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1 : 4	1000 Nos	0.565	4500.00	2542.50
3.9	Cement mortar 1 : 4 (1 cement : 4 coarse sand) (Rate as per item No 3.9)	cum	0.28	3815.05	1068.21
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.45	476.00	214.20
0024	Mason (brick layer) 2nd class	day	0.45	374.50	168.53
0018	Coolie	day	1.55	320.83	497.29
0011	Bhisti	day	0.70	320.83	224.58
	TOTAL				4902.25 W
	Add 1 % Water charges on "W"				49.02
	TOTAL				4951.27 X
	Add GST (multiplying factor 0.1405) on "X"				695.65
	TOTAL				5646.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				847.04
	Total				6493.96 Z
	Add Cess @ 1% on "Z"				64.94
	Cost for 10 sqm.				6558.90
	Cost for 1 sqm.				655.89
	Say				655.90
6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	0.565	4500.00	2542.50
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4469.50	1251.46
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0024	Mason (brick layer) 2nd class	day	0.60	374.50	224.70
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	0.70	320.83	224.58
	Extra labour for lifting materials:				
0018	Coolie	day	1.29	320.83	413.87
	10 x 0.115 x 0.75 x 1.5				5771.31 W
	TOTAL				
	Add 1 % Water charges on "W"				57.71
	TOTAL				5829.03 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				818.98
	TOTAL				6648.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				997.20
	Total				7645.21 Z
	Add Cess @ 1% on "Z"				76.45
	Cost for 10 sqm.				7721.66
	Cost for 1 sqm.				772.17
	Say				772.15
6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar	1000 Nos	0.565	4500.00	2542.50
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3815.05	1068.21
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0024	Mason (brick layer) 2nd class	day	0.60	374.50	224.70
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	0.70	320.83	224.58
	Extra labour for lifting materials:				
0018	Coolie 10 x 0.115 x 0.75 x 1.5	day	1.29	320.83	413.87
	TOTAL				5588.07 W
	Add 1 % Water charges on "W"				55.88
	TOTAL				5643.95 X
	Add GST (multiplying factor 0.1405) on "X"				792.97
	TOTAL				6436.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				965.54
	Total				7402.46 Z
	Add Cess @ 1% on "Z"				74.02
	Cost for 10 sqm.				7476.49
	Cost for 1 sqm.				747.65
	Say				747.65
6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.				
	Details of cost for 59.83 sqm per four floors				
037	Mobile crane	day	0.125	7500.00	937.50
	TOTAL				937.50 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				9.38
	TOTAL				946.88 X
	Add GST (multiplying factor 0.1405) on "X"				133.04
	TOTAL				1079.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.99
	Total				1241.90 Z
	Add Cess @ 1% on "Z"				12.42
					1254.32
	Cost of 59.83 sqm.				20.96
	Cost for 1 sqm.				20.95
	Say				20.95
6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.				
	Details of cost for 10sqm.				
	6mm dia. M.S. bars (round) 2 Nos. @ 30 meter/10sqm. = 60 metre @ 0.22kg/m =				
1002	Mild steel round bar 12 mm dia and below	quintal	0.132	4500.00	594.00
2205	Carriage of Steel	tonne	0.0132	94.34	1.25
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				598.89 W
	Add 1 % Water charges on "W"				5.99
	TOTAL				604.87 X
	Add GST (multiplying factor 0.1405) on "X"				84.98
	TOTAL				689.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				103.48
	Total				793.34 Z
	Add Cess @ 1% on "Z"				7.93
					801.27
	Cost of 10.00 sqm.				80.13
	Cost for 1 sqm.				80.15
	Say				80.15
6.16	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in foundation and plinth in:				
6.16.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10 Cement mortar 1 : 4	1000 Nos	0.777	4500.00	3496.50
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.40	3815.05	1526.02
2207	Carriage of Brick tiles	1000 Nos	0.777	169.81	131.94
9999	Sundries	L.S.	4.55	2.00	9.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0024	Mason (brick layer) 2nd class	day	0.70	374.50	262.15
0018	Coolie	day	1.54	320.83	494.08
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				6317.15 W
	Add 1 % Water charges on "W"				63.17
	TOTAL				6380.33 X
	Add GST (multiplying factor 0.1405) on "X"				896.44
	TOTAL				7276.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				1091.51
	Total				8368.28 Z
	Add Cess @ 1% on "Z"				83.68
	Cost for 1 cum.				8451.96
	Say				8451.95
6.16.2	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
1984	Common burnt clay F.P.S. (non modular)	1000 Nos	0.777	4500.00	3496.50
	bricks tile class designation 10 Cement mortar 1 : 6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	3160.60	1264.24
2207	Carriage of Brick tiles	1000 Nos	0.777	169.81	131.94
9999	Sundries	L.S.	4.55	2.00	9.10
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0024	Mason (brick layer) 2nd class	day	0.70	374.50	262.15
0018	Coolie	day	1.54	320.83	494.08
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				6055.38 W
	Add 1 % Water charges on "W"				60.55
	TOTAL				6115.93 X
	Add GST (multiplying factor 0.1405) on "X"				859.29
	TOTAL				6975.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				1046.28
	Total				8021.50 Z
	Add Cess @ 1% on "Z"				80.22
	Cost for 1 cum.				8101.72
	Say				8101.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.17	Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).				
	Details of cost for 1 cum.				
	MATERIAL				
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	0.777	4900.00	3807.30
2207	Carriage of Brick tiles Cement mortar 1 : 6	1000 Nos	0.777	169.81	131.94
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	3160.60	1264.24
9999	Sundries	L.S.	4.55	2.00	9.10
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0024	Mason (brick layer) 2nd class	day	0.70	374.50	262.15
0018	Coolie	day	1.54	320.83	494.08
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				6366.18 W
	Add 1 % Water charges on "W"				63.66
	TOTAL				6429.84 X
	Add GST (multiplying factor 0.1405) on "X"				903.39
	TOTAL				7333.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				1099.98
	Total				8433.22 Z
	Add Cess @ 1% on "Z"				84.33
	Cost for 1 cum.				8517.55
	Say				8517.55
6.18	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).				
	Details of cost for 1 cum.				
	MATERIAL				
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.777	4500.00	3496.50
2207	Carriage of Brick tiles Cement mortar 1 : 6	1000 Nos	0.777	169.81	131.94
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	3160.60	1264.24
9999	Sundries	L.S.	4.55	2.00	9.10
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.90	476.00	428.40
0024	Mason (brick layer) 2nd class	day	0.90	374.50	337.05
0018	Coolie	day	1.80	320.83	577.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of materials				
0018	Coolie	day	1.13	320.83	362.54
9999	Scaffolding	L.S.	33.80	2.00	67.60
	TOTAL				6739.03 W
	Add 1 % Water charges on "W"				67.39
	TOTAL				6806.42 X
	Add GST (multiplying factor 0.1405) on "X"				956.30
	TOTAL				7762.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				1164.41
	Total				8927.13 Z
	Add Cess @ 1% on "Z"				89.27
	Cost for 1 cum.				9016.40
	Say				9016.40

6.20 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Details of cost for 1 cum.

MATERIAL

1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.777	4500.00	3496.50
2207	Carriage of Brick tiles Cement mortar 1 : 4	1000 Nos	0.777	169.81	131.94
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.35	3815.05	1335.27
9999	Sundries	L.S.	5.46	2.00	10.92
	Centering and shuttering, area same as in item no. 6.9				
5.9.9	Rate as per item no 5.9.9 of SH : Reinforced cement concrete work	sqm	2.25	1190.75	2679.19 A
9999	Scaffolding	L.S.	18.85	2.00	37.70
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.79	476.00	376.04
0024	Mason (brick layer) 2nd class	day	0.79	374.50	295.86
0018	Coolie	day	3.21	320.83	1029.86
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				9819.98 W
	Add 1 % Water charges on "W-A"	7140.79			71.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				9891.39	X
	Add GST (multiplying factor 0.1405) on "X-A"		7212.20		1013.31	
	TOTAL				10904.70	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		8225.51		1233.83	
	Total				12138.53	Z
	Add Cess @ 1% on "Z-A"		9459.34		94.59	
	Cost for 1 cum.				12233.12	
	Say				12233.10	
6.21	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.					
	Details of cost for 1 cum.					
	MATERIAL					
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.791	4500.00	3559.50	
2207	Carriage of Brick tiles Cement mortar 1 : 4	1000 Nos cum	0.791	169.81	134.32	
3.9	Rate as per Item Number 3.9 of SH: Mortars		0.35	3815.05	1335.27	
9999	Sundries and shuttering	L.S.	5.46	2.00	10.92	
	Centering and shuttering, area same as in item no. 6.9					
5.9.9	Rate as per item no 5.9.9 of SH : Reinforced cement concrete work	sqm	2.25	1190.75	2679.19	A
9999	Scaffolding	L.S.	18.85	2.00	37.70	
	LABOUR					
0023	Mason (brick layer) 1st class	day	1.50	476.00	714.00	
0024	Mason (brick layer) 2nd class	day	1.50	374.50	561.75	
0018	Coolie	day	5.33	320.83	1710.02	
0011	Bhisti	day	0.20	320.83	64.17	
	Extra labour for lifting of material (above floor two level up to floor five level)					
0018	Coolie	day	1.13	320.83	362.54	
	TOTAL				11169.37	W
	Add 1 % Water charges on "W-A"		8490.18		84.90	
	TOTAL				11254.27	X
	Add GSTmultiplying factor 0.1405) on "X-A"		8575.08		1204.80	
	TOTAL				12459.07	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		9779.88		1466.98	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Total				13926.06	Z
	Add Cess @ 1% on "Z-A"		11246.87		112.47	
	Cost for 1 cum.				14038.52	
	Cost for 1 cum.				14038.52	
	Say				14038.50	
6.22	Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.					
	Details of cost for 10 sqm.					
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.377	4500.00	1696.50	
2207	Carriage of Brick tiles Cement mortar 1:3	1000 Nos	0.377	169.81	64.02	
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.15	4469.50	670.43	
9999	Sundries and scaffolding LABOUR	L.S.	8.06	2.00	16.12	
0023	Mason (brick layer) 1st class	day	0.94	476.00	447.44	
0024	Mason (brick layer) 2nd class	day	0.94	374.50	352.03	
0018	Coolie	day	1.88	320.83	603.16	
0011	Bhisti	day	0.33	320.83	105.87	
	Extra labour for lifting of material (above floor two level up to floor five level)					
0018	Coolie	day	1.29	320.83	413.87	
	TOTAL				4369.44	W
	Add 1 % Water charges on "W"				43.69	
	TOTAL				4413.13	X
	Add GST (multiplying factor 0.1405) on "X"				620.05	
	TOTAL				5033.18	Y
	Add 15 % Contractor's profit and overheads on "Y"				754.98	
	Total				5788.15	Z
	Add Cess @ 1% on "Z"				57.88	
	Cost for 10 cum.				5846.04	
	Cost per sqm.				584.60	
	Say				584.60	
6.23	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).					
	Details of cost for 1sqm. of Honey comb brick works-					
	MATERIAL					
	Brick work, with bricks of class designation 7.5, in cement mortar 1:4 (1 Cement :					
	4 Coarse sand) in superstructure					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1 m x 1 x 0.143 m x 4.5/7.5 = 0.069 cum				
6.4.1	Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.069	6382.90	440.42 A
9999	Extra for delay due to fine work	L.S.	20.67	2.00	41.34
	TOTAL				481.76 W
	Add 1 % Water charges on "W-A"	41.34			0.41
	TOTAL				482.17 X
	Add GST (multiplying factor 0.1405) on "X-A"	41.75			5.87
	TOTAL				488.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	47.62			7.14
	Total				495.18 Z
	Add Cess @ 1% on "Z-A"	54.76			0.55
	Cost for 1 sqm.				495.73
	Say				495.75
6.24	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.				
NOTE :-	The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of brick work under sub - soil water with the quantity of brick work in cum. executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.				
	Details of cost for depth of water 0.30m depth.				
	Quantity of concrete = 14 cum.				
	pumping hours = 3 hrs. on 0.375 day.				
011	Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00	262.50
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				1545.82 W
	Add 1 % Water charges on "W"				15.46
	TOTAL				1561.28 X
	Add GST (multiplying factor 0.1405) on "X"				219.36
	TOTAL				1780.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				267.10
	Total				2047.73 Z
	Add Cess @ 1% on "Z"				20.48
	Cost of 14cum. per 0.30m depth				2068.21
	Cost of cum. per m depth				492.43
	Say				492.45

6.25 Extra for laying brick work in or under foul position.

Details of cost for 1 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra labour due to slow progress-				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.15	320.83	48.12
	TOTAL				145.34 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.80 X
	Add GST (multiplying factor 0.1405) on "X"				20.62
	TOTAL				167.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.11
	Total				192.53 Z
	Add Cess @ 1% on "Z"				1.93
	Cost for 1 cum.				194.46
	Say				194.45

6.26 Brick work with common burnt clay selected F.P.S. (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)

6.26.1 From ground level upto plinth level

	Details of cost for 1 cum.				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries including steel/wooden strips for making grooves. LABOUR	L.S.	16.38	2.00	32.76
	For selection of bricks				
0017	Beldar	day	0.50	320.83	160.42
0023	Mason (brick layer) 1st class	day	0.35	476.00	166.60
0024	Mason (brick layer) 2nd class	day	0.35	374.50	131.08
0018	Coolie	day	1.07	320.83	343.29
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				4051.26 W
	Add 1 % Water charges on "W"				40.51
	TOTAL				4091.78 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				574.89
	TOTAL				4666.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				700.00
	Total				5366.67 Z
	Add Cess @ 1% on "Z"				53.67
	Cost for 1 cum.				5420.34
	Say				5420.35
6.26.2	Above plinth level upto floor V level				
	Details of cost for 1 cum.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.494	4500.00	2223.00
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries including steel/wooden strips for making grooves.	L.S.	16.38	2.00	32.76
	LABOUR				
	For selection of bricks				
0017	Beldar	day	0.50	320.83	160.42
0023	Mason (brick layer) 1st class	day	0.46	476.00	218.96
0024	Mason (brick layer) 2nd class	day	0.46	374.50	172.27
0018	Coolie	day	1.60	320.83	513.33
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72
	TOTAL				4722.12 W
	Add 1 % Water charges on "W"				47.22
	TOTAL				4769.34 X
	Add GST (multiplying factor 0.1405) on "X"				670.09
	TOTAL				5439.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				815.91
	Total				6255.34 Z
	Add Cess @ 1% on "Z"				62.55
	Cost for 1 cum.				6317.90
	Say				6317.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.27	Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).				
6.27.1	From ground level upto plinth level				
	Details of cost for 1 cum.				
	MATERIAL				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	0.487	4000.00	1948.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	3160.60	695.33
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				3473.16 W
	Add 1 % Water charges on "W"				34.73
	TOTAL				3507.90 X
	Add GST (multiplying factor 0.1405) on "X"				492.86
	TOTAL				4000.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				600.11
	Total				4600.87 Z
	Add Cess @ 1% on "Z"				46.01
	Cost for 1 cum.				4646.88
	Say				4646.90
6.27.2	Above plinth level upto floor V level				
	Details of cost for 1 cum.				
	MATERIAL				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	0.487	4000.00	1948.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	3160.60	695.33
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.44	476.00	209.44
0024	Mason (brick layer) 2nd class	day	0.44	374.50	164.78
0018	Coolie	day	1.43	320.83	458.79
0011	Bhisti	day	0.18	320.83	57.75
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72
	TOTAL				4111.93 W
	Add 1 % Water charges on "W"				41.12
	TOTAL				4153.05 X
	Add GST (multiplying factor 0.1405) on "X"				583.50
	TOTAL				4736.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				710.48
	Total				5447.04 Z
	Add Cess @ 1% on "Z"				54.47
	Cost for 1 cum.				5501.51
	Say				5501.50
6.28	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).				
6.28.1	From ground level upto plinth level				
	Details of cost for 1 cum.				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	0.487	5000.000	2435.00
2201	Carriage of Bricks	1000 Nos	0.487	283.013	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	3160.604	695.33
9999	Sundries including steel/wooden strips for making grooves. LABOUR	L.S.	16.38	2.000	32.76
0023	Mason (brick layer) 1st class	day	0.33	476.000	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.500	123.59
0018	Coolie	day	1.00	320.830	320.83
0011	Bhisti	day	0.18	320.830	57.75
	TOTAL				3960.16 W
	Add 1 % Water charges on "W"				39.60
	TOTAL				3999.77 X
	Add GST (multiplying factor 0.1405) on "X"				561.97

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4561.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				684.26
	Total				5245.99 Z
	Add Cess @ 1% on "Z"				52.46
	Cost for 1 cum.				5298.45
	Say				5298.45
6.28.2	Above plinth level upto floor V level				
	Details of cost for 1 cum.				
	MATERIAL				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	0.487	5000.00	2435.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH:	cum	0.22	3160.60	695.33
9999	Sundries including steel/wooden strips for making grooves.	L.S.	16.38	2.00	32.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.44	476.00	209.44
0024	Mason (brick layer) 2nd class	day	0.44	374.50	164.78
0018	Coolie	day	1.43	320.83	458.79
0011	Bhisti	day	0.18	320.83	57.75
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72
	TOTAL				4598.93 W
	Add 1 % Water charges on "W"				45.99
	TOTAL				4644.92 X
	Add GST (multiplying factor 0.1405) on "X"				652.61
	TOTAL				5297.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				794.63
	Total				6092.17 Z
	Add Cess @ 1% on "Z"				60.92
	Cost for 1 cum.				6153.09
	Say				6153.10
6.29	Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).				
6.29.1	From ground level upto plinth level				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum.				
	MATERIAL				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	0.494	5000.00	2470.00
2201	Carriage of Bricks Cement mortar 1 : 6 (1 cement : 6 coarse sand)	1000 Nos	0.494	283.01	139.81
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				4242.60 W
	Add 1 % Water charges on "W"				42.43
	TOTAL				4285.03 X
	Add GST (multiplying factor 0.1405) on "X"				602.05
	TOTAL				4887.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				733.06
	Total				5620.14 Z
	Add Cess @ 1% on "Z"				56.20
	Cost for 1 cum.				5676.34
	Say				5676.35

6.29.2 Above plinth level upto floor V level

Details of cost for 1 cum.

MATERIAL

7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	0.494	5000.00	2470.00
2201	Carriage of Bricks Cement mortar 1 : 6 (1 cement : 6 coarse sand)	1000 Nos	0.494	283.01	139.81
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76

LABOUR

0023	Mason (brick layer) 1st class	day	0.44	476.00	209.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0024	Mason (brick layer) 2nd class	day	0.44	374.50	164.78
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72
	TOTAL				4855.86
	Add 1 % Water charges on "W"				48.56
	TOTAL				4904.42
	Add GST (multiplying factor 0.1405) on "X"				689.07
	TOTAL				5593.49
	Add 15 % Contractor's profit and overheads on "Y"				839.02
	Total				6432.51
	Add Cess @ 1% on "Z"				64.33
	Cost for 1 cum.				6496.83
	Say				6496.85
6.30	Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).				
6.30.1	From ground level upto plinth level				
	Details of cost for 1 cum.				
	MATERIAL				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	0.494	4700.00	2321.80
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				4094.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				40.94
	TOTAL				4135.35 X
	Add GST (multiplying factor 0.1405) on "X"				581.02
	TOTAL				4716.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				707.45
	Total				5423.82 Z
	Add Cess @ 1% on "Z"				54.24
	Cost for 1 cum.				5478.06
	Say				5478.05

6.30.2 Above plinth level upto floor V level

Details of cost for 1 cum.

MATERIAL

7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	0.494	4700.00	2321.80
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
3.11	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76

LABOUR

0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17

Extra labour for lifting of material (above floor two level up to floor five level)

0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72

TOTAL 4733.17 W

Add 1 % Water charges on "W" 47.33

TOTAL 4780.50 X

Add GST (multiplying factor 0.1405) on "X" 671.66

TOTAL 5452.17 Y

Add 15 % Contractor's profit and overheads on "Y" 817.82

Total 6269.99 Z

Add Cess @ 1% on "Z" 62.70

Cost for 1 cum. 6332.69

Say 6332.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.31	Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).				
6.31.1	From ground level upto plinth level				
	Details of cost for 1 cum.				
	MATERIAL				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	0.487	5200.00	2532.40
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Cement mortar 1 : 6 (1 cement : 6 coarse sand) (Rate as per item No 3.11)	cum	0.22	3160.60	695.33
9999	Sundries i/c steel / wooden strips for making grooves	L.S.	16.38	2.00	32.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				4057.56 W
	Add 1 % Water charges on "W"				40.58
	TOTAL				4098.14 X
	Add GST (multiplying factor 0.1405) on "X"				575.79
	TOTAL				4673.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				701.09
	Total				5375.02 Z
	Add Cess @ 1% on "Z"				53.75
	Cost for 1 cum.				5428.77
	Say				5428.75
6.31.2	Above plinth level upto floor V level				
	Details of cost for 1 cum.				
	MATERIAL				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	0.487	5200.00	2532.40
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortar	cum	0.22	3160.60	695.33
9999	Sundries i/c steel / wooden strips for	L.S.	16.38	2.00	32.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	making grooves				
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.44	476.00	209.44
0024	Mason (brick layer) 2nd class	day	0.44	374.50	164.78
0018	Coolie	day	1.43	320.83	458.79
0011	Bhisti	day	0.18	320.83	57.75
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	22.36	2.00	44.72
	TOTAL				4696.33 W
	Add 1 % Water charges on "W"				46.96
	TOTAL				4743.30 X
	Add GST (multiplying factor 0.1405) on "X"				666.43
	TOTAL				5409.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				811.46
	Total				6221.19 Z
	Add Cess @ 1% on "Z"				62.21
	Cost for 1 cum.				6283.40
	Say				6283.40

6.32 Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :

6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Details of cost for 1 cum.

MATERIAL

7008	F.P.S.(non modular) clay fly ash bricks class designation 7.5	1000 Nos	0.494	4800.00	2371.20
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3815.05	953.76
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
9999	Sundries	L.S.	2.73	2.00	5.46

LABOUR

0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	8.97	2.00	17.94
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.83	362.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4892.10 W
	Add 1 % Water charges on "W"				48.92
	TOTAL				4941.02 X
	Add GST (multiplying factor 0.1405) on "X"				694.21
	TOTAL				5635.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				845.29
	Total				6480.52 Z
	Add Cess @ 1% on "Z"				64.81
	Cost for 1 cum.				6545.33
	Say				6545.35

6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Details of cost for 1 cum.

MATERIAL

7008	F.P.S.(non modular) clay fly ash bricks class designation 7.5 Cement mortar 1 : 6 (1 cement : 6 coarse sand)	1000 Nos	0.494	4800.00	2371.20
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	3160.60	790.15
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
9999	Sundries LABOUR	L.S.	2.73	2.00	5.46
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	8.97	2.00	17.94
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4728.49 W
	Add 1 % Water charges on "W"				47.28
	TOTAL				4775.78 X
	Add GST (multiplying factor 0.1405) on "X"				671.00
	TOTAL				5446.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				817.02
	Total				6263.79 Z
	Add Cess @ 1% on "Z"				62.64
	Cost for 1 cum.				6326.43
	Say				6326.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level				
6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
7737	Fly ash bricks conforming to I.S. 12894 Cement mortar 1 : 4 (1 cement : 4 coarse sand)	1000 Nos	0.487	4300.00	2094.10
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3815.05	839.31
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4525.35 W
	Add 1 % Water charges on "W"				45.25
	TOTAL				4570.60 X
	Add GST (multiplying factor 0.1405) on "X"				642.17
	TOTAL				5212.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				781.92
	Total				5994.69 Z
	Add Cess @ 1% on "Z"				59.95
	Cost for 1 cum.				6054.64
	Say				6054.65
6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
7737	Fly ash bricks conforming to I.S. 12894 Cement mortar 1 : 6 (1 cement : 6 coarse sand)	1000 Nos	0.487	4300.000	2094.10
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	3160.604	695.33
2201	Carriage of Bricks	1000 Nos	0.487	283.013	137.83
9999	Sundries	L.S.	2.73	2.000	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.000	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.500	176.02
0018	Coolie	day	1.80	320.830	577.49
0011	Bhisti	day	0.20	320.830	64.17
9999	Scaffolding	L.S.	22.36	2.000	44.72
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.830	362.54
	TOTAL				4381.37 W
	Add 1 % Water charges on "W"				43.81
	TOTAL				4425.19 X
	Add GST (multiplying factor 0.1405) on "X"				621.74
	TOTAL				5046.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				757.04
	Total				5803.96 Z
	Add Cess @ 1% on "Z"				58.04
	Cost for 1 cum.				5862.00
	Say				5862.00
6.35	Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
6.35.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139 - 1989	1000 Nos	0.487	5400.000	2629.80
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3815.048	839.31
2201	Carriage of Bricks	1000 Nos	0.487	283.013	137.83
9999	Sundries	L.S.	2.73	2.000	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.000	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.500	176.02
0018	Coolie	day	1.80	320.830	577.49
0011	Bhisti	day	0.20	320.830	64.17
9999	Scaffolding	L.S.	22.36	2.000	44.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.830	362.54
	TOTAL				5061.05 W
	Add 1 % Water charges on "W"				50.61
	TOTAL				5111.66 X
	Add GST (multiplying factor 0.1405) on "X"				718.19
	TOTAL				5829.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				874.48
	Total				6704.33 Z
	Add Cess @ 1% on "Z"				67.04
	Cost for 1 cum.				6771.37
	Say				6771.35

6.35.2 Cement mortar 1:6 (1 cement : 6 Coarse sand)

Details of cost for 1 cum.

MATERIAL

7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139 - 1989	1000 Nos	0.487	5400	2629.80
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	3160.60	695.33
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				0.00
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4917.07 W
	Add 1 % Water charges on "W"				49.17
	TOTAL				4966.24 X
	Add GST (multiplying factor 0.1405) on "X"				697.76
	TOTAL				5664.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				849.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				6513.60 Z
	Add Cess @ 1% on "Z"				65.14
	Cost for 1 cum.				6578.74
	Say				6578.75
6.36	Brick work with modular extruded brunt fly ash clay sewer bricks (Conforming to IS: 4885) in foundation and plinth :				
6.36.1	Cement Mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 1 cum.				
	MATERIAL				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885 - 1988	1000 Nos	0.487	5400.00	2629.80
3.9	Cement mortar 1 : 4 (1 cement : 4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3815.05	839.31
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				4271.64 W
	Add 1 % Water charges on "W"				42.72
	TOTAL				4314.36 X
	Add GST (multiplying factor 0.1405) on "X"				606.17
	TOTAL				4920.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				738.08
	Total				5658.61 Z
	Add Cess @ 1% on "Z"				56.59
	Cost for 1 cum.				5715.19
	Say				5715.20
6.37	Brick work with modular extruded brunt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).				
	Details of cost for 1 cum.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885 - 1988 Cement Mortar 1:3 (1 cement : 3 fine sand).	1000 Nos	0.487	5400.00	2629.80
3.3	Rate as per item no 3.3 SH Mortar	cum	0.25	3988.00	997.00
2201	Carriage of Bricks	1000 Nos	0.487	283.01	137.83
9999	Sundries Centering and shuttering	L.S.	2.73	2.00	5.46
5.9.9	Rate as per item no 5.9.9 of SH : Reinforced cement concrete work LABOUR	sqm	2.25	1190.75	2679.19 A
0023	Mason (brick layer) 1st class	day	0.42	476.00	199.92
0024	Mason (brick layer) 2nd class	day	0.42	374.50	157.29
0018	Coolie	day	1.86	320.83	596.74
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				7467.40 W
	Add 1 % Water charges on "W-A"	4788.21			47.88
	TOTAL				7515.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	4836.09			679.47
	TOTAL				8194.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5515.56			827.33
	Total				9022.08 Z
	Add Cess @ 1% on "Z-A"	6342.89			63.43
	Cost per cum.				9085.51
	Say				9085.50

6.38 Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.

Details of cost for 1 cum.

MATERIAL

8655	Autoclaved aerated cement (AAC) blocks. Cement mortar 1 : 4 (1 cement : 4 coarse sand)	cum	1.00	2600.00	2600.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.15	3815.05	572.26
2208	Carriage of AAC Block	cum	1.00	106.13	106.13
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	Reinforcement bars				
5.22.1	Rate as per item no. 5.22.1 of SH : Reinforced cement concrete work Extra labour element required for lifting of materials (above floor two level upto floor five level)(0.75 x1.5 =1.13).	kg	13.20	75.40	995.33 A
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				5451.60 W
	Add 1 % Water charges on "W-A"	4456.27			44.56
	TOTAL				5496.17 X
	Add GST (multiplying factor 0.1405) on "X-A"	4500.83			632.37
	TOTAL				6128.53 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5133.20			769.98
	Total				6898.51 Z
	Add Cess @ 1% on "Z-A"	5903.18			59.03
	Cost of 1 Cum.				6957.54
	Say				6957.55

6.40 Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm2

Details of cost for 10 sqm

MATERIAL

8656	Gypsum panel 666 X 500 X 100 mm size.	sqm	10.00	480.00	4800.00
8657	Bonding plaster for Gypsum panel.	kg	25.00	25.00	625.00
9999	Sundries & scaffolding	L.S.	13.52	2.00	27.04

LABOUR

0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83

	TOTAL				6010.87 W
	Add 1 % Water charges on "W"				60.11
	TOTAL				6070.98 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				852.97
	TOTAL				6923.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				1038.59
	Total				7962.54 Z
	Add Cess @ 1% on "Z"				79.63
	Cost for 10 sqm.				8042.17
	Cost for 1 sqm				804.22
	Say				804.20
6.41	Extra for Gypsum panel Partitions in superstructure above floor V level for every four floors or part thereof.				
	Details of cost for 10 sqm. per four floor				
	Extra labour element for lifting of materials above floor V level.				
0018	Coolie	day	1.73	320.83	555.0359
	Total				555.0359 W
	Add 1 % Water charges on "W"				5.55
	TOTAL				560.59 X
	Add GST (multiplying factor 0.1405) on "X"				78.76
	TOTAL				639.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				95.90
	Total				735.25 Z
	Add Cess @ 1% on "Z"				7.35
	Cost for 10 cum.				742.60
	Cost for 1 sqm				74.26
	Say				74.25
6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).				
	Details of cost for 10m length				
9999	Excavation and disposal of surplus earth 2nd class bricks = 42 nos. + Add wastage @ 10% = 4.2 nos. = 46.2 nos. Say 46.00 nos.	L.S.	2.73	2.00	5.46
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.046	4500.00	207.00
2201	Carriage of Bricks	1000 Nos	0.046	283.01	13.02
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.0036	3333.55	12.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	0.10	320.83	32.08
0011	Bhisti	day	0.03	320.83	9.62
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				322.10
	Add 1 % Water charges on "W"				3.22
	TOTAL				325.32
	Add GST (multiplying factor 0.1405) on "X"				45.71
	TOTAL				371.03
	Add 15 % Contractor's profit and overheads on "Y"				55.65
	Total				426.68
	Add Cess @ 1% on "Z"				4.27
	Cost for 10 cum.				430.95
	Cost for 1 sqm				43.09
	Say				43.10
6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.				
6.45.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
7737	Fly ash bricks conforming to I.S. 12894	1000	0.565	4300.00	2429.50
	Cement mortar 1:3 (1 cement : 3 coarse sand)	Nos			
3.8	Rate as per Item Number 3.8 of SH:	cum	0.28	4469.50	1251.46
	Mortars				
2201	Carriage of Bricks	1000	0.565	283.01	159.90
		Nos			
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0024	Mason (brick layer) 2nd class	day	0.60	374.50	224.70
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	0.70	320.83	224.58
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.29	320.83	413.87
	TOTAL				5658.31
	Add 1 % Water charges on "W"				56.58
	TOTAL				5714.90
	Add GST (multiplying factor 0.1405) on "X"				802.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6517.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				977.68
	Total				7495.52 Z
	Add Cess @ 1% on "Z"				74.96
	Cost for 10 cum.				7570.47
	Cost for 1 sqm				757.05
	Say				757.05
6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
7737	Fly ash bricks conforming to I.S. 12894	1000	0.565	4300.00	2429.500
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Nos			
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3815.05	1068.21
2201	Carriage of Bricks	1000	0.565	283.01	159.90
		Nos			
9999	Sundries & Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0024	Mason (brick layer) 2nd class	day	0.60	374.50	224.70
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	0.70	320.83	224.58
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.29	320.83	413.87
	TOTAL				5475.068 W
	Add 1 % Water charges on "W"				54.75
	TOTAL				5529.82 X
	Add GST (multiplying factor 0.1405) on "X"				776.94
	TOTAL				6306.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				946.01
	Total				7252.77 Z
	Add Cess @ 1% on "Z"				72.53
	Cost for 10 cum.				7325.30
	Cost for 1 sqm				732.53
	Say				732.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).				
	Details of cost for 1 cum.				
	MATERIAL				
8655	Autoclaved areated cement (AAC) blocks	cum	1.00	2600.00	2600.00
357	Polymer modified adhesive mortar	Kg	30.00	15.00	450.00
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1 st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
	Extra labour element required for lifting of materials (above floor two level upto floor five level) (0.75x1.50 = 1.13)				
0018	Coolie	day	1.13	320.83	362.54
	TOTAL				4163.72 W
	Add 1 % Water charges on "W"				41.64
	TOTAL				4205.35 X
	Add GST (multiplying factor 0.1405) on "X"				590.85
	TOTAL				4796.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				719.43
	Total				5515.63 Z
	Add Cess @ 1% on "Z"				55.16
	Cost of 1 cum				5570.79
	Say				5570.80

SUB HEAD : 7.0

STONE WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
1157	Stone for masonry work	cum	1.00	1100.00	1100.00
1154	Through and bond stone size 24 x24 x39 cm	100	0.07	5000.00	350.00
	Carriage:	Nos			
2215	Carriage of Soling stone & masonry stone	cum	1.16	124.86	144.84
	7.00x24cmx24cmx39cm = 0.16 cum.				
	1.00cum. + 0.16 cum. = 1.16 cum.				
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of	cum	0.33	3160.60	1043.00
	SH: Mortars				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.07	374.50	400.72
0017	Beldar	day	1.07	320.83	343.29
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
9999	Cement concrete 1:6:12	L.S.	45.76	2.00	91.52
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				3738.86 W
	Add 1 % Water charges on "W"				37.39
	TOTAL				3776.25 X
	Add GST (multiplying factor 0.1405) on "X"				530.56
	TOTAL				4306.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				646.02
	Total				4952.84 Z
	Add Cess @ 1% on "Z"				49.53
	Cost of 1 cum.				5002.37
	Say				5002.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
1157	Stone for masonry work	cum	1.00	1100.00	1100.00
1154	Through and bond stone size 24 x 24 x39 cm	100 Nos	0.07	5000.00	350.00
	Carriage of stone-				
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum. 1.00cum. + 0.16 cum. = 1.16 cum.	cum	1.16	124.86	144.84
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.33	3160.60	1043.00
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.34	374.50	501.83
0017	Beldar	day	1.45	320.83	465.20
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
9999	Cement concrete 1:6:12	L.S.	56.55	2.00	113.10
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries	L.S.	15.21	2.00	30.42
	TOTAL				4367.59 W
	Add 1 % Water charges on "W"				43.68
	TOTAL				4411.27 X
	Add GST (multiplying factor 0.1405) on "X"				619.78
	TOTAL				5031.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				754.66
	Total				5785.71 Z
	Add Cess @ 1% on "Z"				57.86
	Cost of 1 cum.				5843.56
	Say				5843.55

7.4 Extra for random rubble masonry with hard stone in :

7.4.1 Square or rectangular pillars

Details of cost for 1 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.58	374.50	217.21
0018	Coolie	day	0.27	320.83	86.62
	TOTAL				303.83 W
	Add 1 % Water charges on "W"				3.04
	TOTAL				306.87 X
	Add GST (multiplying factor 0.1405) on "X"				43.12
	TOTAL				349.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.50
	Total				402.49 Z
	Add Cess @ 1% on "Z"				4.02
	Cost of 1 cum.				406.51
	Say				406.50

7.4.2 Circular pillars

Details of cost for 1 cum

1157	Stone for masonry work	cum	0.29	1100.00	319.00
2215	Carriage of Soling stone & masonry stone	cum	0.29	124.86	36.21
	LABOUR				
	Labour for cutting and dressing stones-				
0025	Mason (for plain stone work) 2nd class)	day	1.42	374.50	531.79
0018	Coolie	day	0.35	320.83	112.29
	Total				999.29 W
	Add 1 % Water charges on "W"				9.99
	TOTAL				1009.28 X
	Add GST (multiplying factor 0.1405) on "X"				141.80
	TOTAL				1151.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				172.66
	Total				1323.75 Z
	Add Cess @ 1% on "Z"				13.24
	Cost of 1 cum.				1336.99
	Say				1337.00

7.5 Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.

Details of cost for 1 cum

1157	Stone for masonry work	cum	0.10	1100.00	110.00
2215	Carriage of Soling stone & masonry stone	cum	0.10	124.86	12.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	Labour for cutting and dressing stones-				
0025	Mason (for plain stone work) 2nd class)	day	0.27	374.50	101.12
0018	Coolie	day	0.53	320.83	170.04
	TOTAL				393.64 W
	Add 1 % Water charges on "W"				3.94
	TOTAL				397.58 X
	Add GST (multiplying factor 0.1405) on "X"				55.86
	TOTAL				453.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.02
	Total				521.45 Z
	Add Cess @ 1% on "Z"				5.21
	Cost of 1 cum.				526.67
	Say				526.65

7.6 Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :

7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Details of cost for 1 cum

MATERIAL

Cement mortar 1 : 6 (1 cement : 6 coarse sand)

3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	3160.60	948.18
1157	Stone for masonry work	cum	1.21	1100.00	1331.00
1154	Through and bond stone size 24 x24 x39 cm	100	0.07	5000.00	350.00
		Nos			
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum. 1021+0.16=1.37 Cum	cum	1.37	124.86	171.06
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.12	374.50	793.94
0017	Beldar	day	1.24	320.83	397.83
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				4275.71 W
	Add 1 % Water charges on "W"				42.76
	TOTAL				4318.47 X
	Add GST (multiplying factor 0.1405) on "X"				606.74
	TOTAL				4925.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				738.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				5664.00 Z
	Add Cess @ 1% on "Z"				56.64
	Cost of 1 cum.				5720.63
	Say				5720.65
7.7	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :				
7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	3160.60	948.18
1157	Stone for masonry work	cum	1.10	1100.00	1210.00
1154	Through and bond stone size 24 x 24 x39 cm Carriage:	100 Nos	0.07	5000.00	350.00
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum. 1.10+0.16 cum = 1.26 cum.	cum	1.26	124.86	157.32
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.76	374.50	659.12
0017	Beldar	day	1.24	320.83	397.83
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				4006.16 W
	Add 1 % Water charges on "W"				40.06
	TOTAL				4046.22 X
	Add GST (multiplying factor 0.1405) on "X"				568.49
	TOTAL				4614.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				692.21
	Total				5306.92 Z
	Add Cess @ 1% on "Z"				53.07
	Cost of 1 cum.				5359.99
	Say				5360.00

7.8 Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.

7.8.1 Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)

Details of cost for 1 cum

MATERIAL

Cement mortar 1 : 6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	3160.60	948.18
1157	Stone for masonry work	cum	1.21	1100.00	1331.00
1154	Through and bond stone size 24 x 24 x39 cm	100 Nos	0.07	5000.00	350.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum. 1.21 cum. + 0.16 cum = 1.37 cum LABOUR	cum	1.37	124.86	171.06
0025	Mason (for plain stone work) 2nd class)	day	2.38	374.50	891.31
0017	Beldar	day	1.59	320.83	510.12
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries, scaffolding etc.	L.S.	37.70	2.00	75.40
	TOTAL				4896.27 W
	Add 1 % Water charges on "W"				48.96
	TOTAL				4945.23 X
	Add GST (multiplying factor 0.1405) on "X"				694.81
	TOTAL				5640.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				846.01
	Total				6486.04 Z
	Add Cess @ 1% on "Z"				64.86
	Cost of 1 cum.				6550.90
	Say				6550.90

7.8.2 Masonry work (second sort), in cement mortar 1:6 (1 cement: 6 coarse sand)

Details of cost for 1 cum

MATERIAL

Cement mortar 1 : 6 (1 cement : 6 coarse sand)

3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	3160.60	948.18
1157	Stone for masonry work	cum	1.10	1100.00	1210.00
1154	Through and bond stone size 24 x24 x39 cm	100	0.07	5000.00	350.00
2215	Carriage: Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum. 1.10+0.16 cum = 1.26 cum. LABOUR	Nos cum	1.26	124.86	157.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0025	Mason (for plain stone work) 2nd class)	day	2.02	374.50	756.49
0017	Beldar	day	1.59	320.83	510.12
0018	Coolie	day	0.71	320.83	227.79
0011	Bhisti	day	0.09	320.83	28.87
	Extra labour for lifting of material (above floor two level up to floor five level)				
0018	Coolie	day	1.13	320.83	362.54
9999	Sundries, scaffolding etc.	L.S.	37.7	2.00	75.40
	TOTAL				4626.72 W
	Add 1 % Water charges on "W"				46.27
	TOTAL				4672.98 X
	Add GST (multiplying factor 0.1405) on "X"				656.55
	TOTAL				5329.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				799.43
	Total				6128.97 Z
	Add Cess @ 1% on "Z"				61.29
	Cost of 1 cum.				6190.26
	Say				6190.25

7.10 Extra for coursed rubble masonry with hard stone (first or second sort) in:

7.10.1 Square or rectangular pillars

Details of cost for 1 cum

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.67	374.50	250.92
0018	Coolie	day	0.27	320.83	86.62
	TOTAL				337.54 W
	Add 1 % Water charges on "W"				3.38
	TOTAL				340.91 X
	Add GST (multiplying factor 0.1405) on "X"				47.90
	TOTAL				388.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.32
	Total				447.13 Z
	Add Cess @ 1% on "Z"				4.47
	Cost of 1 cum.				451.61
	Say				451.60

7.10.2 Circular pillars

Details of cost for 1 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1157	Stone for masonry work	cum	0.32	1100.00	352.00
2215	Carriage of Soling stone & masonry stone	cum	0.32	124.86	39.95
	LABOUR				
	Labour for cutting and dressing :				
0025	Mason (for plain stone work) 2nd class)	day	1.67	374.50	625.42
0018	Coolie	day	0.35	320.83	112.29
	Total				1129.66 W
	Add 1 % Water charges on "W"				11.30
	TOTAL				1140.96 X
	Add GST (multiplying factor 0.1405) on "X"				160.30
	TOTAL				1301.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				195.19
	Total				1496.45 Z
	Add Cess @ 1% on "Z"				14.96
	Cost of 1 cum.				1511.42
	Say				1511.40
7.11	Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.				
	Details of cost for 1 cum Extra				
1157	Stone for masonry work	cum	0.11	1100.00	121.00
2215	Carriage of Soling stone & masonry stone Labour	cum	0.11	124.86	13.73
	for cutting and dressing:				
0025	Mason (for plain stone work) 2nd class)	day	0.33	374.50	123.59
0018	Coolie	day	0.53	320.83	170.04
	TOTAL				428.36 W
	Add 1 % Water charges on "W"				4.28
	TOTAL				432.64 X
	Add GST (multiplying factor 0.1405) on "X"				60.79
	TOTAL				493.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.01
	Total				567.44 Z
	Add Cess @ 1% on "Z"				5.67
	Cost of 1 cum.				573.12
	Say				573.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.12	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
7.12.1	One face dressed				
7.12.1.1	Red sand stone				
	Details of cost for 10 cu dm.				
	MATERIAL				
	Red sand stone				
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
1160	Red sand stone block	10 cu dm	1.333	79.00	105.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Extra labour for lifting of materials upto floor V level (0.01x1.50 = 0.015)	tonne	0.031	94.34	2.92
0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.088	374.50	32.96
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				253.29 W
	Add 1 % Water charges on "W"				2.53
	TOTAL				255.83 X
	Add GST (multiplying factor 0.1405) on "X"				35.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				291.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.77
	Total				335.54 Z
	Add Cess @ 1% on "Z"				3.36
	Cost of 10 cu dm.				338.89
	Cost of 1 cum.				33889.00
	Say				33889.00
7.12.1.2 White sand stone					
	Details of cost for 10 cu dm.				
	MATERIAL				
1161	White sand stone block	10 cu dm	1.333	205.00	273.27
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Extra labour for lifting of materials upto floor V level. (0.01 x 1.50 =0.015)	tonne	0.031	94.34	2.92
0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.088	374.50	32.96
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				421.25 W
	Add 1 % Water charges on "W"				4.21
	TOTAL				425.46 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				59.78
	TOTAL				485.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				72.79
	Total				558.03 Z
	Add Cess @ 1% on "Z"				5.58
	Cost of 10 cudm.				563.61
	Cost of 1 cum.				56361.00
	Say				56361.00

7.12.2 Both face dressed

7.12.2.1 Red sand stone

Details of cost for 10 cudm.

MATERIAL

1160	Red sand stone block	10 cudm	1.333	79.00	105.31
	Finished work = 10 cudm.+ Add wastage @ 33.3% = 3.33 cudm. Cost of stone				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Extra labour for lifting of materials upto floor V level (0.01x1.50 = 0.015)	tonne	0.031	94.34	2.92
0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				324.40 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.24
	TOTAL				327.64 X
	Add GST (multiplying factor 0.1405) on "X"				46.03
	TOTAL				373.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.05
	Total				429.73 Z
	Add Cess @ 1% on "Z"				4.30
	Cost of 10 cu dm.				434.02
	Cost of 1 cum.				43402.00
	Say				43402.00

7.12.2.2 White sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

1161	White sand stone block	10 cu dm	1.333	205.00	273.27
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.				

2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Extra labour for lifting of material upto floor V level. (0.01 x 1.50 = 0.015)	tonne	0.031	94.34	2.92

0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23

Fixing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				492.36 W
	Add 1 % Water charges on "W"				4.92
	TOTAL				497.28 X
	Add GST (multiplying factor 0.1405) on "X"				69.87
	TOTAL				567.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.07
	Total				652.22 Z
	Add Cess @ 1% on "Z"				6.52
	Cost of 10 cudm.				658.74
	Cost of 1 cum.				65874.00
	Say				65874.00

7.13 Stone work plain ashlar in arches in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.13.1 One face dressed

7.13.1.1 Red sand stone

Details of cost for 10 cudm or 0.01 cum

MATERIAL

1160	Red sand stone block	10 cudm	1.333	79.00	105.31
	Finished work = 10 cudm.+ Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm.				

2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Dressing charges	tonne	0.031	94.34	2.92

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.088	374.50	32.96
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12

Fixing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centering and shuttering	L.S.	13.52	2.00	27.04
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material (above floor two level up to floor five level) (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				296.45 W
	Add 1 % Water charges on "W"				2.96
	TOTAL				299.42 X
	Add GST (multiplying factor 0.1405) on "X"				42.07
	TOTAL				341.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.22
	Total				392.71 Z
	Add Cess @ 1% on "Z"				3.93
	Cost of 10 cudm.				396.64
	Cost of 1 cum.				39664.00
	Say				39664.00

7.13.1.2 White sand stone

Details of cost for 10 cudm or 0.01 cum

MATERIAL

1161	White sand stone block	10	1.333	205.00	273.27

Finished work = 10 cudm.+

Add wastage @ 33.3% = 3.33 cudm.

Total = 13.33 cudm.

2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.34	2.92

@ 2.30kg/cudm = 13.33x2.30=30.659 kg

= 0.03065 tonne say 0.031t

Dressing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.088	374.50	32.96

0012	Blacksmith 1st class	day	0.006	476.00	2.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centering and shuttering	L.S.	13.52	2.00	27.04
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material (above floor two level up to floor five level) (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				464.41 W
	Add 1 % Water charges on "W"				4.64
	TOTAL				469.06 X
	Add GST (multiplying factor 0.1405) on "X"				65.90
	TOTAL				534.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				80.24
	Total				615.20 Z
	Add Cess @ 1% on "Z"				6.15
	Cost of 10 cu dm.				621.35
	Cost of 1 cum.				62135.00
	Say				62135.00

7.13.2 Both face dressed

7.13.2.1 Red sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

1160	Red sand stone block	10 cu dm	1.333	79.00	105.31
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 13.33 cu dm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Dressing charges LABOUR	tonne	0.031	94.34	2.92
0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centering and shuttering	L.S.	13.52	2.00	27.04
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material (above floor two level up to floor five level) (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				367.56 W
	Add 1 % Water charges on "W"				3.68
	TOTAL				371.23 X
	Add GST (multiplying factor 0.1405) on "X"				52.16
	TOTAL				423.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				63.51
	Total				486.90 Z
	Add Cess @ 1% on "Z"				4.87
	Cost of 10 cu dm.				491.77
	Cost of 1 cum.				49177.00
	Say				49177.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.13.2.2 White sand stone					
	Details of cost for 10 cu dm or 0.01 cum				
	MATERIAL				
1161	White sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.	10 cu dm	1.333	205.00	273.27
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t. Dressing charges	tonne	0.031	94.34	2.92
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centering and shuttering	L.S.	13.52	2.00	27.04
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material (above floor two level up to floor five level) (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				535.52 W
	Add 1 % Water charges on "W"				5.36
	TOTAL				540.87 X
	Add GST (multiplying factor 0.1405) on "X"				75.99
	TOTAL				616.86 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				92.53
	Total				709.39 Z
	Add Cess @ 1% on "Z"				7.09
	Cost of 10 cu dm.				716.49
	Cost of 1 cum.				71649.00
	Say				71649.00
7.14	Stone work plain ashlar in domes , in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				
7.14.1	One face dressed				
7.14.1.1	Red sand stone				
	Details of cost for 10 cu dm or 0.01 cum				
	MATERIAL				
1160	Red sand stone block	10 cu dm	1.333	79.00	105.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.34	2.92
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg				
	=0.03065 tonne say 0.031 t				
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0026	Mason (for ornamental stone work) 1st class	day	0.176	476.00	83.78
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centring and shuttering	L.S.	33.15	2.00	66.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Extra for using white cement Extra labour for lifting of material up to floor five level (0.01 x 1.5 = 0.015)	L.S.	8.06	2.00	16.12
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				452.45 W
	Add 1 % Water charges on "W"				4.52
	TOTAL				456.97 X
	Add GST (multiplying factor 0.1405) on "X"				64.20
	TOTAL				521.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.18
	Total				599.35 Z
	Add Cess @ 1% on "Z"				5.99
	Cost of 10 cu dm.				605.34
	Cost of 1 cum.				60534.00
	Say				60534.00

7.14.1.2 White sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

1161	White sand stone block	10 cu dm	1.333	205.00	273.27
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.				

2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg =0.03065 tonne say 0.031 t	tonne	0.031	94.34	2.92

Dressing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.176	374.50	65.91
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0026	Mason (for ornamental stone work) 1st class	day	0.176	476.00	83.78
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12

Fixing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centring and shuttering	L.S.	33.15	2.00	66.30
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material up to floor five level (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				620.40 W
	Add 1 % Water charges on "W"				6.20
	TOTAL				626.61 X
	Add GST (multiplying factor 0.1405) on "X"				88.04
	TOTAL				714.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.20
	Total				821.84 Z
	Add Cess @ 1% on "Z"				8.22
	Cost of 10 cudm.				830.06
	Cost of 1 cum.				83006.00
	Say				83006.00

7.14.2 Both face dressed

7.14.2.1 Red sand stone

Details of cost for 10 cudm.

MATERIAL

1160	Red sand stone block	10	1.333	79.00	105.31

Finished work = 10 cudm.+

Add wastage @ 33.3% = 3.33 cudm.

Total = 13.33 cudm.

2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.34	2.92

@ 2.30kg/cudm = 13.33x2.30=30.659 kg

=0.03065 tonne say 0.031 t

Dressing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.352	374.50	131.82

0012	Blacksmith 1st class	day	0.012	476.00	5.71

0026	Mason (for ornamental stone work) 1st class	day	0.352	476.00	167.55

0017	Beldar	day	0.088	320.83	28.23

0018	Coolie	day	0.044	320.83	14.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centring and shuttering	L.S.	33.15	2.00	66.30
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
	Extra labour for lifting of material up to floor five level (0.01 x 1.5 = 0.015)				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				640.28 W
	Add 1 % Water charges on "W"				6.40
	TOTAL				646.68 X
	Add GST (multiplying factor 0.1405) on "X"				90.86
	TOTAL				737.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.63
	Total				848.18 Z
	Add Cess @ 1% on "Z"				8.48
	Cost of 10 cudm.				856.66
	Cost of 1 cum.				85666.00
	Say				85666.00

7.14.2.2 White sand stone

Details of cost for 10 cudm or 0.01 cum

MATERIAL

1161	White sand stone block	10 cudm	1.333	205.00	273.27
	Finished work = 10 cudm.+				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.34	2.92
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg				
	=0.03065 tonne say 0.031 t				
	Dressing charges				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	0.352	374.50	131.82
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0026	Mason (for ornamental stone work) 1st class	day	0.352	476.00	167.55
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
Fixing charges					
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
9999	Centring and shuttering	L.S.	33.15	2.00	66.30
9999	Extra for using white cement	L.S.	8.06	2.00	16.12
Extra labour for lifting of material up to floor five level (0.01 x 1.5 = 0.015)					
0018	Coolie	day	0.015	320.83	4.81
TOTAL					808.24 W
Add 1 % Water charges on "W"					8.08
TOTAL					816.32 X
Add GST (multiplying factor 0.1405) on "X"					114.69
TOTAL					931.02 Y
Add 15 % Contractor's profit and overheads on "Y"					139.65
Total					1070.67 Z
Add Cess @ 1% on "Z"					10.71
Cost of 10 cudm.					1081.37
Cost of 1 cum.					108137.00
Say					108137.00
7.15	Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.15.1 One face dressed					
7.15.1.1 Red sand stone					
Details of cost for 10 cu dm or 0.01 cum					
MATERIAL					
1160	Red sand stone block Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.	10 cu dm	1.333	79.00	105.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 tonne = 0.03065kg say 0.031 t Dressing charges	tonne	0.031	94.34	2.92
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	0.059	374.50	22.10
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
Fixing charges					
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing Extra labour for lifting of materials upto floor V level (0.01x1.50 = 0.015)	L.S.	8.06	2.00	16.12
0018	Coolie	day	0.015	320.83	4.81
TOTAL					242.43 W
Add 1 % Water charges on "W"					2.42
TOTAL					244.86 X
Add GST (multiplying factor 0.1405) on "X"					34.40
TOTAL					279.26 Y
Add 15 % Contractor's profit and overheads on "Y"					41.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				321.15 Z
	Add Cess @ 1% on "Z"				3.21
	Cost of 10 cu dm.				324.36
	Cost of 1 cum.				32436.00
	Say				32436.00
7.15.1.2 White sand stone					
	Details of cost for 10 cu dm or 0.01 cum				
	MATERIAL				
1161	White sand stone block	10 cu dm	1.333	205.00	273.27
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 =30.659 tonne = 0.03065kg say 0.031 t Dressing charges	tonne	0.031	94.34	2.92
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.059	374.50	22.10
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing Extra labour for lifting of materials upto floor V level (0.01x1.50 = 0.015)	L.S.	8.06	2.00	16.12
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				410.39 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.50 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				58.24
	TOTAL				472.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.91
	Total				543.64 Z
	Add Cess @ 1% on "Z"				5.44
	Cost of 10 cu dm.				549.08
	Cost of 1 cum.				54908.00
	Say				54908.00

7.15.2 Both faced punched

7.15.2.1 Red sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

1160	Red sand stone block	10 cu dm	1.333	79.00	105.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.34	2.92
	@ 2.30kg/cu dm = 13.33x2.30 = 30.659 tonne = 0.03065 kg say 0.031 t. Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015				
0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.118	374.50	44.19
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				302.68 W
	Add 1 % Water charges on "W"				3.03
	TOTAL				305.70 X
	Add GST (multiplying factor 0.1405) on "X"				42.95
	TOTAL				348.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.30
	Total				400.95 Z
	Add Cess @ 1% on "Z"				4.01
	Cost of 10 cu dm.				404.96
	Cost of 1 cum.				40496.00
	Say				40496.00

7.15.2.2 White sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

1161	White sand stone block	10 cu dm	1.333	205.00	273.27
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm.				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 tonne = 0.03065 kg say 0.031 t. Extra labour for lifting of material upto floor V level. (0.01 x 1.50 = 0.015)	tonne	0.031	94.34	2.92
0018	Coolie	day	0.015	320.83	4.81
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.118	374.50	44.19
0012	Blacksmith 1st class	day	0.012	476.00	5.71
0017	Beldar	day	0.088	320.83	28.23
0018	Coolie	day	0.044	320.83	14.12
0010	Bandhani	day	0.088	320.83	28.23
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	TOTAL				470.63 W
	Add 1 % Water charges on "W"				4.71
	TOTAL				475.34 X
	Add GST (multiplying factor 0.1405) on "X"				66.79
	TOTAL				542.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				81.32
	Total				623.45 Z
	Add Cess @ 1% on "Z"				6.23
	Cost of 10 cu dm.				629.68
	Cost of 1 cum.				62968.00
	Say				62968.00
7.16	Extra for stone work, random rubble / coursed rubble masonry / ashlar masonry above floor V level for every four floors or part thereof.				
	Details of cost for 10 cu dm or 0.01 cum above floor V level				
	Labour required for lifting of material (above floor five level for each additional four floor or part thereof)				
	Extra labour for lifting of materials above floor V level (0.01 x 2.0 = 0.020)				
0017	Beldar	day	0.02	320.83	6.42
	TOTAL				6.42 W
	Add 1 % Water charges on "W"				0.06
	TOTAL				6.48 X
	Add GST (multiplying factor 0.1405) on "X"				0.91
	TOTAL				7.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				1.11
	Total				8.50 Z
	Add Cess @ 1% on "Z"				0.09
	Cost of 10 cu dm.				8.59
	Cost of 1 cum.				859.00
	Say				859.00
7.17	Extra for plain ashlar or ashlar punched in :				
7.17.1	Square or rectangular pillars				
	Details of cost for 10 cu dm or 0.01 cum				
9999	Labour and materials	L.S.	8.97	2	17.94
	TOTAL				17.94 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				0.18
	TOTAL				18.12 X
	Add GST (multiplying factor 0.1405) on "X"				2.55
	TOTAL				20.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				3.10
	Total				23.76 Z
	Add Cess @ 1% on "Z"				0.24
	Cost of 10 cudm.				24.00
	Cost of 1 cum.				2400.00
	Say				2400.00

7.18 Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.

Details of cost for 10 cudm or 0.01 cum

9999	Labour and materials	L.S.	6.24	2	12.48
	TOTAL				12.48 W
	Add 1 % Water charges on "W"				0.12
	TOTAL				12.60 X
	Add GST (multiplying factor 0.1405) on "X"				1.77
	TOTAL				14.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				2.16
	Total				16.53 Z
	Add Cess @ 1% on "Z"				0.17
	Cost of 10 cudm.				16.70
	Cost of 1 cum.				1670.00
	Say				1670.00

7.19 Extra for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).

Details of cost for 33.31 sqm

Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m)

Radius R = 5m $2R-2 = 4+4 \tan^{-1} (4/3)=53.28^\circ$

$2 \times 53.28=106^\circ$

Surface area = $2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.31 \text{sqm.}$

Arc=9.25m

MATERIAL

Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{cum}$

Struts- $2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{cum.}$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Struts-2x1.77x0.1x0.1=0.035cum. Ribs- 6x1.54x0.23x0.1=0.213cum. Struts-2x1.72x0.1x0.1=0.034cum. Total=0.476cum. For four such frames =0.476x4 = 1.904 cum. laggings-75x3.6x0.125x0.075=2.531cum. Tie- 2x3.6x0.225x0.038=0.062cum. Brace-3x2x2.14x0.225x0.038=0.110 Brace-3x4x3.8x0.225x0.038=0.390 Sleepers-4x3.6x0.20x0.15=0.432 Sleepers-2x4x3.6x0.175x0.075=0.378 Vertical post- 4x4x3.6x0.15x0.15=1.296 Total = 7.103cum.				
1197	Second class kail wood in scantling	10 cudm	88.79	260.00	23085.40
2204	Carriage of Timber Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @0.25cm each = 2m Total = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.08775 Qtl	cum	0.8879	121.29	107.69
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.160x.254xl .58=64.21 kg=0.64q. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 Qtl	quintal	0.08775	4120.00	361.53
1034	Bolts and nuts upto 300 mm in length Carriage of steel = 0.1342t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.01677 t = 0.0168 t	quintal	0.08	4800.00	384.00
2302	Carriage of G.I.sheet and accessories LABOUR	tonne	0.0168	94.34	1.58
0015	Carpenter 2nd class	day	28.00	374.50	10486.00
0017	Beldar	day	24.00	320.83	7699.92
9999	Sundries	L.S.	134.55	2.00	269.10
5.9.9	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span Rate as per item no 5.9.9 of SH : Reinforced cement concrete work TOTAL	sqm	-33.31	1190.75	-39663.90 A
					2731.33 W
	Add 1 % Water charges on "W-A"		42395.23		423.95
	TOTAL				3155.29 X
	Add GST (multiplying factor 0.1405) on "X-A"		42819.18		6016.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				9171.38 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	48835.28			7325.29
	Total				16496.67 Z
	Add Cess @ 1% on "Z-A"	56160.57			561.61
	Cost of 33.31sqm.				17058.28
	Cost per sqm of soffit area				512.11
	Say				512.10
7.20	Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
7.20.1	Red sand stone				
	Details of cost for 10 cu dm or 0.01 cum				
	MATERIAL				
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm.				
1160	Red sand stone block	10 cu dm	1.333	79.00	105.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.03065 tonne say 0.031 t.	tonne	0.031	94.34	2.92
9999	Extra for using white cement Dressing charges	L.S.	8.06	2.00	16.12
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.291	374.50	108.98
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for laying and pointing Extra labour for lifting of materials upto floor V level (0.01x1.50=0.015)	L.S.	8.06	2.00	16.12
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				345.44 W
	Add 1 % Water charges on "W"				3.45
	TOTAL				348.89 X
	Add GST (multiplying factor 0.1405) on "X"				49.02
	TOTAL				397.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.69
	Total				457.60 Z
	Add Cess @ 1% on "Z"				4.58
	Cost of 10 cu dm.				462.17
	Cost of 1 cum.				46217.00
	Say				46217.00

7.20.2 White sand stone

Details of cost for 10 cu dm or 0.01 cum

MATERIAL

Finished work = 10 cu dm.+

Add wastage @ 33.3% = 3.33 cu dm.

Total = 13.33 cu dm.

1161	White sand stone block	10 cu dm	1.333	205.00	273.27
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.03065 tonne say 0.031t.	tonne	0.031	94.34	2.92
9999	Extra for using white cement Dressing charges	L.S.	8.06	2.00	16.12
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.291	374.50	108.98
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.044	320.83	14.12
0018	Coolie	day	0.022	320.83	7.06
0010	Bandhani	day	0.044	320.83	14.12
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.044	374.50	16.48
0012	Blacksmith 1st class	day	0.006	476.00	2.86
0017	Beldar	day	0.022	320.83	7.06
0018	Coolie	day	0.022	320.83	7.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0010	Bandhani	day	0.022	320.83	7.06
0011	Bhisti	day	0.022	320.83	7.06
9999	Scaffolding	L.S.	2.73	2.00	5.46
9999	Mortar for laying and pointing	L.S.	8.06	2.00	16.12
	Extra labour for lifting of materials upto floor V level 0.01x1.50=0.015				
0018	Coolie	day	0.015	320.83	4.81
	TOTAL				513.40 W
	Add 1 % Water charges on "W"				5.13
	TOTAL				518.53 X
	Add GST (multiplying factor 0.1405) on "X"				72.85
	TOTAL				591.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				88.71
	Total				680.09 Z
	Add Cess @ 1% on "Z"				6.80
	Cost of 10 cudm.				686.89
	Cost of 1 cum.				68689.00
	Say				68689.00

7.21 Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :

7.21.1 Triangular or Square or rectangular pillars

Details of cost for 10 cudm or 0.01 cum

9999	LABOUR	L.S.	11.70	2.00	23.40
	TOTAL				23.40 W
	Add 1 % Water charges on "W"				0.23
	TOTAL				23.63 X
	Add GST (multiplying factor 0.1405) on "X"				3.32
	TOTAL				26.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				4.04
	Total				31.00 Z
	Add Cess @ 1% on "Z"				0.31
	Cost of 10 cudm.				31.31
	Cost of 1 cum.				3131.00
	Say				3131.00

7.21.2 Circular or polygonal pillars

Details of cost for 10 cudm or 0.01 cum

9999	LABOUR	L.S.	33.15	2.00	66.30
	TOTAL				66.30 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				0.66
	TOTAL				66.96 X
	Add GST (multiplying factor 0.1405) on "X"				9.41
	TOTAL				76.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.46
	Total				87.83 Z
	Add Cess @ 1% on "Z"				0.88
	Cost of 10 cudm.				88.71
	Cost of 1 cum.				8871.00
	Say				8871.00

7.22 Extra for stone work ashlar sunk or moulded in cornices.

Details of cost for a cornice 30cm long 60cm deep and 15cm projection Extra labour :					
0025	Mason (for plain stone work) 2nd class)	day	0.50	374.50	187.25
0017	Beldar	day	0.75	320.83	240.62
	TOTAL				427.87 W
	Add 1 % Water charges on "W"				4.28
	TOTAL				432.15 X
	Add GST (multiplying factor 0.1405) on "X"				60.72
	TOTAL				492.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.93
	Total				566.80 Z
	Add Cess @ 1% on "Z"				5.67
	Cost of 30cm long 60cm deep and 15cm girth				572.47
	Cost of per metre per cm girth				127.21
	Say				127.20

7.24 Extra for stone work (veneer work) curved on plan with a mean radius not exceeding 6 m.

Details of cost for 10 cudm.					
9999	Labour and materials	L.S.	8.97	2.00	17.94
	TOTAL				17.94 W
	Add 1 % Water charges on "W"				0.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				18.12 X
	Add GST (multiplying factor 0.1405) on "X"				2.55
	TOTAL				20.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				3.10
	Total				23.76 Z
	Add Cess @ 1% on "Z"				0.24
	Cost of 10 cu dm.				24.00
	Cost of 1 cum.				2400.00
	Say				2400.00
7.26	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases.				
	Details of cost for one dowel				
9999	Cost of stone including carriage	L.S.	9.10	2.00	18.20
9999	Labour for dressing dowel cutting chase and fixing etc.	L.S.	5.33	2.00	10.66
	Cement mortar 1:2 (1 cement : 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5150.60	5.15
	TOTAL				34.01 W
	Add 1 % Water charges on "W"				0.34
	TOTAL				34.35 X
	Add GST (multiplying factor 0.1405) on "X"				4.83
	TOTAL				39.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.88
	Total				45.05 Z
	Add Cess @ 1% on "Z"				0.45
	Cost of each dowel				45.50
	Say				45.50
7.28	Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with bricks cove in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
7.28.1	Red sand stone :				
7.28.1.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for a chajja 2.00 sqm. (finished work)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	2.75	200.00	550.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm. Labour for dressing:	tonne	0.253	94.34	23.87
0025	Mason (for plain stone work) 2nd class)	day	0.50	374.50	187.25
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc. Mortar for pointing 1:2 (1 Cement : 2 Stone dust)	L.S.	67.34	2.00	134.68
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	4913.10	44.22
9999	Pigment	L.S.	6.24	2.00	12.48
9999	Extra cost of white cement	L.S.	26.91	2.00	53.82
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	1.00	374.50	374.50
0017	Beldar	day	1.50	320.83	481.25
9999	Scaffolding and sundries etc.	L.S.	16.12	2.00	32.24
	Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm				
9999	Cost of Brick cover support.	L.S.	104.00	2.00	208.00
	Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4 1/2x2.5x0.2x0.07=0.018cum.				
6.4.1	Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.018	6382.90	114.89 A
TOTAL					2307.19 W
Add 1 % Water charges on "W-A"					21.92
TOTAL					2329.12 X
Add GST (multiplying factor 0.1405) on "X"					311.10
TOTAL					2640.21 Y
Add 15 % Contractor's profit and overheads on "Y"					378.80
Total					3019.01 Z
Add Cess @ 1% on "Z"					29.04
Cost of 2 sqm.					3048.05
Cost of 1 sqm.					1524.03
Say					1524.05

7.28.2 White sand stone :

7.28.2.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Details of cost for a chajja 2.00 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(finished work)				
	MATERIAL				
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.75	200.00	550.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm. Labour for dressing:	tonne	0.253	94.34	23.87
0025	Mason (for plain stone work) 2nd class) Labour for dressing: Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q	day	0.50	374.50	187.25
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc. Mortar for pointing 1:2 (1 Cement : 2 Stone dust)	L.S.	67.34	2.00	134.68
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	4913.10	44.22
9999	Pigment	L.S.	6.24	2.00	12.48
9999	Extra cost of white cement	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.00	374.50	374.50
0017	Beldar	day	1.50	320.83	481.25
9999	Scaffolding and sundries etc. Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm	L.S.	16.12	2.00	32.24
9999	Cost for Brick cover support . Brick work in triangular gap above cover with bricks of class designation 5 in cement mortar 1:4 1/2x2.5x0.2x0.07=0.018cum.	L.S.	104.00	2.00	208.00
6.4.1	Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.018	6382.90	114.89 A
	TOTAL				2307.19 W
	Add 1 % Water charges on "W-A"	2192.30			21.92
	TOTAL				2329.12 X
	Add GST (multiplying factor 0.1405) on "X-A"	2214.22			311.10
	TOTAL				2640.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2525.32			378.80
	Total				3019.01 Z
	Add Cess @ 1% on "Z-A"	2904.12			29.04
	Cost of 2 sqm.				3048.05
	Cost of 1 sqm.				1524.03
	Say				1524.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7.29	Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :				
7.29.1	Red sand stone				
	Details of cost for (2.5x0.75m) 1.875 sqm.				
	MATERIAL				
	Taking 2.5mx75cm projection +				
	15cm bearing = 2.5x0.9 = 2.25 sqm.				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	2.25	200.00	450.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm.	tonne	0.227	94.34	21.41
	Labour for dressing:				
0025	Mason (for plain stone work) 2nd class)	day	0.45	374.50	168.53
9999	Mortar for pointing 1:2	L.S.	53.82	2.00	107.64
9999	Pigment	L.S.	6.24	2.00	12.48
9999	Extra cost of white cement	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.60	374.50	224.70
0017	Beldar	day	0.80	320.83	256.66
9999	Scaffolding and sundries etc.	L.S.	13.52	2.00	27.04
	TOTAL				1322.28 W
	Add 1 % Water charges on "W"				13.22
	TOTAL				1335.51 X
	Add GST (multiplying factor 0.1405) on "X-A"				187.64
	TOTAL				1523.15 Y
	Add 15 % Contractor's profit and overheads on "Y-A"				228.47
	Total				1751.62 Z
	Add Cess @ 1% on "Z-A"				17.52
	Cost of 1.875 sqm.				1769.13
	Cost of 1 sqm.				943.54
	Say				943.55

7.29.2 White sand stone

Details of cost for (2.5x0.75m) 1.875 sqm.

MATERIAL

Taking 2.5mx75cm projection +

15cm bearing = 2.5x0.9 = 2.25 sqm.

1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.25	200.00	450.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm.	tonne	0.227	94.34	21.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour for dressing:				
0025	Mason (for plain stone work) 2nd class)	day	0.45	374.50	168.53
9999	Mortar for pointing 1:2	L.S.	53.82	2.00	107.64
9999	Pigment	L.S.	6.24	2.00	12.48
9999	Extra cost of white cement	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.60	374.50	224.70
0017	Beldar	day	0.80	320.83	256.66
9999	Scaffolding and sundries etc.	L.S.	13.52	2.00	27.04
	TOTAL				1322.28 W
	Add 1 % Water charges on "W"				13.22
	TOTAL				1335.51 X
	Add GST (multiplying factor 0.1405) on "X"				187.64
	TOTAL				1523.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				228.47
	Total				1751.62 Z
	Add Cess @ 1% on "Z"				17.52
	Cost of 1.875 sqm.				1769.13
	Cost of 1 sqm.				943.54
	Say				943.55
7.30	30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.				
	Detail of cost for window 1.6m length and 0.70m width = 1.12 sqm.				
	MATERIAL				
	over all width $0.70+0.15=0.85$ metres Total area = $1.6 \times 0.85=1.36$ sqm.				
	Red stone brackets (chisel dressed) 30mm average thickness over all width of brackets $0.53+0.23=0.76$ m				
	$2 \times 0.3 \times 0.76=0.46$				
	Total $1.36+0.46 =1.82$ sqm.+ Add wastage @10% = 0.18sqm.				
	Total = 2.00 sqm.				
1166	Red sand stone slab 30 mmthick (un-dressed)	sqm	2.00	200.00	400.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.14	94.34	13.21
9999	Cement mortar 1 :4	L.S.	13.52	2.00	27.04
	Labour for dressing and fixing:				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.86	374.50	322.07
0017	Beldar	day	0.50	320.83	160.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				922.73 W
	Add 1 % Water charges on "W"				9.23
	TOTAL				931.96 X
	Add GST (multiplying factor 0.1405) on "X"				130.94
	TOTAL				1062.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				159.43
	Total				1222.33 Z
	Add Cess @ 1% on "Z"				12.22
	Cost for 1.12 sqm.				1234.56
	Cost of 1 sqm.				1102.28
	Say				1102.30
7.31	Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6 mm dia as per design.				
	Details of cost for 1 bracket				
	Quantity of stone for 1 bracket				
	1 x 55 x 22.5 x 45cm = 0.056cum or 56 cudm.				
	Red sand stone = 56 cudm.				
	Add wastage 10% = 5.6 cudm. Total = 61.6 cudm.				
1160	Red sand stone block	10 cudm	6.16	79.00	486.64
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.3kq/ cudm.	tonne	0.14	94.34	13.21
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.7926	374.50	671.33
0012	Blacksmith 1st class	day	0.037	476.00	17.61
0017	Beldar	day	0.271	320.83	86.94
0018	Coolie	day	0.1355	320.83	43.47
0010	Bandhani	day	0.271	320.83	86.94
373	Cramp Gun metal 25x6x300 mm	each	4.00	80.00	320.00
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.2464	374.50	92.28
0012	Blacksmith 1st class	day	0.0336	476.00	15.99
0017	Beldar	day	0.1232	320.83	39.53
0018	Coolie	day	0.1232	320.83	39.53
0010	Bandhani	day	0.1232	320.83	39.53
0011	Bhisti	day	0.1232	320.83	39.53

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	15.29	2.00	30.58
9999	Mortar for laying and pointing	L.S.	45.14	2.00	90.28
	Extra labour for ornamental finish :				
0026	Mason (for ornamental stone work) 1st class	day	0.95	476.00	452.20
	TOTAL				2565.59 W
	Add 1 % Water charges on "W"				25.66
	TOTAL				2591.24 X
	Add GST (multiplying factor 0.1405) on "X"				364.07
	TOTAL				2955.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				443.30
	Total				3398.61 Z
	Add Cess @ 1% on "Z"				33.99
	Cost for 1 Bracket				3432.59
	Say				3432.60
7.32	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				
7.32.1	Red sand stone				
	Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm.				
	MATERIAL				
	Stone work plain ashlar cyclopean				
	3x3x0.75 = 6.75 cudm				
7.12.1.1	Rate as per item no 7.12.1.1 of SH : Stone Work	cum	0.00675	33889.00	228.75 A
9999	Extra for using white cement	L.S.	5.33	2.00	10.66
	Extra labour for making the cornices				
0025	Mason (for plain stone work) 2nd class)	day	0.07	374.50	26.22
0017	Beldar	day	0.07	320.83	22.46
	TOTAL				288.08 W
	Add 1 % Water charges on "W-A"	59.33			0.59
	TOTAL				288.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	59.93			8.42
	TOTAL				297.10 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	68.35			10.25
	Total				307.35 Z
	Add Cess @ 1% on "Z-A"	78.60			0.79
	Cost of 6.75 cudm				308.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per cum.				45648.89
	Say				45648.90
7.32.2 White sand stone					
Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm.					
MATERIAL					
Stone work plain ashlar cyclopean					
3x3x0.75 = 6.75 cudm					
7.12.1.2	Rate as per item no 7.12.2 of SH : Stone Work	cum	0.00675	56361.00	380.44 A
9999	Extra for using white cement	L.S.	5.33	2.00	10.66
Extra labour for making the cornices					
0025	Mason (for plain stone work) 2nd class)	day	0.07	374.50	26.22
0017	Beldar	day	0.07	320.83	22.46
	TOTAL				439.77 W
	Add 1 % Water charges on "W-A"	59.33			0.59
	TOTAL				440.36 X
	Add GST (multiplying factor 0.1405) on "X-A"	59.93			8.42
	TOTAL				448.78 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	68.35			10.25
	Total				459.03 Z
	Add Cess @ 1% on "Z-A"	78.60			0.79
	Cost of 6.75 cudm				459.82
	Cost per cum.				68121.48
	Say				68121.50

7.33 Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.

7.33.1 Red sand stone

Details of cost for 1 sqm

MATERIAL

Red sand stone slab 40mm = 1.00 sqm Add 10% wastage = 0.10 sqm.

Total = 1.10 sqm.

1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	1.10	200.00	220.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.34	9.53
LABOUR					
For making, dressing and fixing					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0025	Mason (for plain stone work) 2nd class)	day	7.62	374.50	2853.69
0017	Beldar	day	5.07	320.83	1626.61
9999	Mortar and Sundries	L.S.	80.73	2.00	161.46
	TOTAL				4871.29 W
	Add 1 % Water charges on "W"				48.71
	TOTAL				4920.00 X
	Add GST (multiplying factor 0.1405) on "X"				691.26
	TOTAL				5611.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				841.69
	Total				6452.95 Z
	Add Cess @ 1% on "Z"				64.53
	Cost of 1 sqm.				6517.48
	Say				6517.50

7.33.2 White sand stone

Details of cost for 1 sqm

MATERIAL

White sand stone slab 40mm = 1.00 sqm Add 10% wastage = 0.10 sqm.
Total = 1.10 sqm.

1165	White sand stone slab 40 mm thick (un-dressed)	sqm	1.10	200.00	220.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.34	9.53
	LABOUR				
	For making, dressing and fixing				
0025	Mason (for plain stone work) 2nd class)	day	7.62	374.50	2853.69
0017	Beldar	day	5.07	320.83	1626.61
9999	Mortar and Sundries	L.S.	80.73	2.00	161.46
	TOTAL				4871.29 W
	Add 1 % Water charges on "W"				48.71
	TOTAL				4920.00 X
	Add GST (multiplying factor 0.1405) on "X"				691.26
	TOTAL				5611.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				841.69
	Total				6452.95 Z
	Add Cess @ 1% on "Z"				64.53
	Cost of 1 sqm.				6517.48
	Say				6517.50

7.34 Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

NOTE :- The quantity will be calculated by multiplying the depth measured from sub-soil water level up to the centre of gravity of stone work under sub - water with the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Details of cost for depth of water 0.30m.

Quantity of concrete = 14 cum.

pumping hours = 3 hrs. on 0.375day.

011	Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00	262.50
0017	Beldar	day	4.000	320.83	1283.32
	for cleaning slush				1545.82 W
	TOTAL				
	Add 1 % Water charges on "W"				15.46
	TOTAL				1561.28 X
	Add GST (multiplying factor 0.1405) on "X"				219.36
	TOTAL				1780.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				267.10
	Total				2047.73 Z
	Add Cess @ 1% on "Z"				20.48
	Cost of 14cum. per 0.30m depth				2068.21
	Cost of cum. per m depth				492.43
	Say				492.45

7.35 Extra for laying stone work in or under foul position.

Details of cost for 1 cum.

Extra labour due to slow progress-

0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.15	320.83	48.12
	TOTAL				145.34 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.80 X
	Add GST (multiplying factor 0.1405) on "X"				20.62
	TOTAL				167.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				192.53 Z
	Add Cess @ 1% on "Z"				1.93
	Cost for 1 cum.				194.46
	Say				194.45
7.36	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.				
	Details of cost for 1sqm. Dholpur stone 40mm thick Wall face = 1.00sqm. Deduct for embedded portion $3 \times 0.04 \times 1.0 = 0.12$ sqm. = 0.88sqm. Add wastage 5% = 0.04sqm. Total = 0.92 sqm.				
1165	White sand stone slab 40 mm thick (un-dressed) 75mm thick $3 \times 0.04 \times 1.0 = 0.12$ sqm. Add wastage 5% = 0.01 sqm. Total = 0.13 sqm.	sqm	0.92	200.00	184.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	0.13	900.00	117.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab $0.92 \times 0.04 = 0.0368$ cum. $0.13 \times 0.075 = 0.0100$ cum. = 0.0468 cum. or 468 cudm. 468 cudm @ 2.3 kg/cudm = 108 kg = 0.108 tonne	tonne	0.108	94.34	10.19
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device Assuming 50mm thick strips $20 \times 1.0 = 20$ metre Mortar with coarse sand 1:3 for (a) stone backing 12mm thick = 0.0144 cum. (b) for fixing of stone = $0.40/25 = 0.0160$ cum. Total = 0.0304 cum.	metre	20.00	10.00	200.00
3.8	Rate as per Item Number 3.8 of SH: Mortars Cutting chases and making good with mortar after insurting stone etc.	cum	0.0304	4469.50	135.87
18.78	Rate as per Item Number 18.78 of SH: Water	metre	3.00	97.70	293.11 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	White cement and pigment for pointing	L.S.	40.43	2.00	80.86
	LABOUR				
0026	Mason (for ornamental stone work) 1st class	day	0.25	476.00	119.00
0025	Mason (for plain stone work) 2nd class)	day	0.25	374.50	93.63
0017	Beldar	day	0.50	320.83	160.42
0011	Bhisti	day	0.03	320.83	9.62
9999	Sundries and scaffolding brushes etc.	L.S.	26.91	2.00	53.82
	TOTAL				1457.52 W
	Add 1 % Water charges on "W-A"	1164.41			11.64
	TOTAL				1469.16 X
	Add GST (multiplying factor 0.1405) on "X-A"	1176.05			165.24
	TOTAL				1634.39 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1341.29			201.19
	Total				1835.59 Z
	Add Cess @ 1% on "Z-A"	1542.48			15.42
	Cost of 1sqm.				1851.01
	Say				1851.00
7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
7.38.1	8mm thick (mirror polished and machine cut edge)				
7.38.1.1	Granite stone of any colour and shade				
	Details of cost for 10sqm.				
	MATERIAL				
	Granite stone tile = 10.00sqm.				
	Add 2.5% wastage = 0.25sqm. Total =10.25 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	10.25	700.00	7175.00
9977	Carriage of granite tiles	L.S.	40.04	2.00	80.08
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4469.50	625.73
367	Portland Cement slurry @ 3.3 kg/sqm	tonne	0.033	4940.00	163.02
9999	Mortar for pointing in white cement	L.S.	25.74	2.00	51.48
	LABOUR				
	Labour for placing and fixing :				
0023	Mason (brick layer) 1st class	day	7.70	476.00	3665.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	7.70	320.83	2470.39
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	2.00	520.00
9999	Sundries	L.S.	171.60	2.00	343.20
	TOTAL				15094.10 W
	Add 1 % Water charges on "W"				150.94
	TOTAL				15245.04 X
	Add GST (multiplying factor 0.1405) on "X"				2141.93
	TOTAL				17386.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				2608.05
	Total				19995.02 Z
	Add Cess @ 1% on "Z"				199.95
	Cost for 10 sqm.				20194.97
	Cost of 1 sqm.				2019.50
	Say				2019.50

7.38.1.2 Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble

Details of cost for 10sqm.

MATERIAL

8mm thick Raj Nagar white stone tile

= 10.00sqm.+

Add 2.5% wastage = 0.25sqm. Total = 10.25sqm

7439	8mm thick (mirror polished tiles machine cut edge)	sqm	10.25	500.00	5125.00
	Raj Nagar white				
9977	Carriage of Raj Nagar white stone tiles	L.S.	40.04	2.00	80.08
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4469.50	625.73
367	Portland Cement slurry @ 3.3 kg/sqm	tonne	0.033	4940.00	163.02
9999	Mortar for pointing in white cement Labour for placing and fixing :	L.S.	25.74	2.00	51.48
0023	Mason (brick layer) 1st class	day	7.70	476.00	3665.20
0017	Beldar	day	7.70	320.83	2470.39
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260	2.00	520.00
9999	Sundries	L.S.	171.60	2.00	343.20
	TOTAL				13044.10 W
	Add 1 % Water charges on "W"				130.44
	TOTAL				13174.54 X
	Add GST (multiplying factor 0.1405) on "X"				1851.02
	TOTAL				15025.57 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				2253.83
	Total				<u>17279.40</u> Z
	Add Cess @ 1% on "Z"				172.79
	Cost for 10 sqm.				<u>17452.19</u>
	Cost of 1 sqm.				1745.22
	Say				1745.20

SUB HEAD : 8.0

MARBLE & GRANITE WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.1	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).				
8.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.				
8.1.1.1	Area of slab upto 0.50 sqm				
	Details of cost for 0.50 sqm.				
	MATERIAL				
	Finished work = 0.50sqm.				
	Add for wastage @ 20% = 0.10 sqm.				
	Total = 0.60 sqm.				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.60	575.00	345.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab Cement mortar 1:3 (1 cement : 3 coarse sand)	tonne	0.03	94.34	2.83
3.8	Rate as per Item Number 3.8 of SH: Mortars White cement mortar 1:2 (1 white cement : 2 marble dust)	cum	0.008	4469.50	35.76
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0012	9198.40	11.04
	LABOUR				
	For fixing				
0026	Mason (for ornamental stone work) 1st class	day	0.335	476.00	159.46
0010	Bandhani	day	0.335	320.83	107.48
0017	Beldar	day	0.335	320.83	107.48
0018	Coolie	day	0.335	320.83	107.48
0011	Bhisti	day	0.335	320.83	107.48
0028	Mate	day	0.165	320.83	52.94
0012	Blacksmith 1st class	day	0.135	476.00	64.26
9999	Scaffolding	L.S.	13.39	2.00	26.78
	TOTAL				1127.97 W
	Add 1 % Water charges on "W"				11.28
	TOTAL				1139.25 X
	Add GST (multiplying factor 0.1405) on "X"				160.07
	TOTAL				1299.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				194.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1494.22 Z
	Add Cess @ 1% on "Z"				14.94
	Cost for 0.50 sqm.				1509.16
	Cost for one sqm.				3018.32
	Say				3018.30
8.1.1.2 Area of slab over 0.50 sqm					
	Details of cost for 1.00 sqm.				
	MATERIAL				
	Finished work = 1.00 sqm.				
	Add for wastage @ 20% = 0.20 sqm.				
	Total = 1.20 sqm.				
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	1.20	690.00	828.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.06	94.34	5.66
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0144	4469.50	64.36
	White cement mortar 1:2 (1 white cement : 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0025	9198.40	23.00
	LABOUR				
	For fixing				
0026	Mason (for ornamental stone work) 1st class	day	0.67	476.00	318.92
0010	Bandhani	day	0.67	320.83	214.96
0017	Beldar	day	0.67	320.83	214.96
0018	Coolie	day	0.67	320.83	214.96
0011	Bhisti	day	0.67	320.83	214.96
0028	Mate	day	0.33	320.83	105.87
0012	Blacksmith 1st class	day	0.27	476.00	128.52
9999	Scaffolding	L.S.	26.91	2.00	53.82
	TOTAL				2387.98 W
	Add 1 % Water charges on "W"				23.88
	TOTAL				2411.86 X
	Add GST (multiplying factor 0.1405) on "X"				338.87
	TOTAL				2750.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				412.61
	Total				3163.33 Z
	Add Cess @ 1% on "Z"				31.63
	Cost for 1.00 sqm				3194.96
	Cost for one sqm				3194.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				3194.95
8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
8.2.1.1	Area of slab upto 0.50 sqm				
	Details of cost for 0.50 sqm.				
	MATERIAL				
	Mirror polished Abu plain white =				
	0.50 sqm.+Wastage 5% 0.025 sqm. =				
	0.525 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm) 20mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	0.525	575.00	301.88
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3815.05	45.78
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.48	476.00	228.48
0017	Beldar	day	0.20	320.83	64.17
0018	Coolie	day	0.20	320.83	64.17
9999	Moulding and edge polishing	L.S.	39.00	2.00	78.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	2.00	32.50
	TOTAL				814.97 W
	Add 1 % Water charges on "W"				8.15
	TOTAL				823.12 X
	Add GST (multiplying factor 0.1405) on "X"				115.65
	TOTAL				938.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				140.81
	Total				1079.58 Z
	Add Cess @ 1% on "Z"				10.80
	Cost for 0.50 sqm.				1090.38
	Cost for one sqm.				2180.75
	Say				2180.75

8.2.1.2 Area of slab over 0.50 sqm

Details of cost for 1.00 sqm.

MATERIAL

Mirror polished Abu plain white =

1.00 sqm.+ Wastage 5% (0.05sqm.)= 1.05 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm) 20mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	1.05	690.00	724.50
3.9	Rate as per Item Number 3.9 of SH: Mortars LABOUR	cum	0.024	3815.05	91.56
0023	Mason (brick layer) 1st class	day	0.72	476.00	342.72
0017	Beldar	day	0.30	320.83	96.25
0018	Coolie	day	0.30	320.83	96.25
9999	Moulding and edge polishing	L.S.	78.00	2.00	156.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.50	2.00	65.00
	TOTAL				1572.28 W
	Add 1 % Water charges on "W"				15.72
	TOTAL				1588.00 X
	Add GST (multiplying factor 0.1405) on "X"				223.11
	TOTAL				1811.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				271.67
	Total				2082.78 Z
	Add Cess @ 1% on "Z"				20.83
	Cost for 1.00 sqm				2103.61
	Say				2103.60

8.2.2 Granite of any colour and shade

8.2.2.1 Area of slab upto 0.50 sqm

Details of cost for 0.50 sqm.

MATERIAL

Mirror polished granite= 0.50 sqm.+

Wastage 5% 0.025 sqm.= 0.525 sqm

7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm) Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	0.525	1600.00	840.00
3.9	Rate as per Item Number 3.9 of SH: Mortars LABOUR	cum	0.012	3815.05	45.78
0023	Mason (brick layer) 1st class	day	0.48	476.00	228.48
0017	Beldar	day	0.20	320.83	64.17
0018	Coolie	day	0.20	320.83	64.17
9999	Moulding and edge polishing	L.S.	39.00	2.00	78.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	2.00	32.50
	TOTAL				1353.09 W
	Add 1 % Water charges on "W"				13.53
	TOTAL				1366.62 X
	Add GST (multiplying factor 0.1405) on "X"				192.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1558.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				233.80
	Total				1792.43 Z
	Add Cess @ 1% on "Z"				17.92
	Cost for 0.50 sqm.				1810.35
	Cost for 1.00 sqm				3620.71
	Say				3620.70

8.2.2.2 Area of slab over 0.50 sqm

Details of cost for 2.00 sqm.

MATERIAL

Mirror polished granite= 2.00 sqm.+

Wastage 5% 0.10sqm.= 2.10 sqm

7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm) Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	2.10	1800.00	3780.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.048	3815.05	183.12
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.44	476.00	685.44
0017	Beldar	day	0.60	320.83	192.50
0018	Coolie	day	0.60	320.83	192.50
9999	Moulding and edge polishing	L.S.	78.00	2.00	156.00
9999	Sundries apoxy resin & cutting machine etc.	L.S.	65.00	2.00	130.00
	TOTAL				5319.56 W
	Add 1 % Water charges on "W"				53.20
	TOTAL				5372.75 X
	Add GST (multiplying factor 0.1405) on "X"				754.87
	TOTAL				6127.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				919.14
	Total				7046.77 Z
	Add Cess @ 1% on "Z"				70.47
	Cost for 2.00 sqm.				7117.24
	Cost for 1.00 sqm				3558.62
	Say				3558.60

8.3 Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.

8.3.1 Marble work

Details of cost for 10.00 m

LABOUR

019	Hand Grinder For mirror polish	day	1.50	250.00	375.00
0017	Beldar	day	2.00	320.83	641.66
9999	Sundries Blades & Polished etc.	L.S.	78.00	2.00	156.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1172.66 W
	Add 1 % Water charges on "W"				11.73
	TOTAL				1184.39 X
	Add GST (multiplying factor 0.1405) on "X"				166.41
	TOTAL				1350.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				202.62
	Total				1553.41 Z
	Add Cess @ 1% on "Z"				15.53
	Cost for 10 metre				1568.95
	Cost per metre				156.89
	Say				156.90

8.3.2 Granite work

Details of cost for 10.00 m

LABOUR

019	Hand Grinder For mirror polish	day	2.50	250.00	625.00
0017	Beldar	day	3.50	320.83	1122.91
9999	Sundries Blades & Polished etc.	L.S.	117.00	2.00	234.00
	TOTAL				1981.91 W
	Add 1 % Water charges on "W"				19.82
	TOTAL				2001.72 X
	Add GST (multiplying factor 0.1405) on "X"				281.24
	TOTAL				2282.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				342.44
	Total				2625.41 Z
	Add Cess @ 1% on "Z"				26.25
	Cost for 10 metre				2651.67
	Cost per metre				265.17
	Say				265.15

8.4 Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.

Details of cost for facia 1.5m long and

0.15m wide

LABOUR

0023	Mason (brick layer) 1st class	day	0.30	476.00	142.80
0018	Coolie	day	0.30	320.83	96.25
9999	Scaffolding, expoxy	L.S.	39.00	2.00	78.00
	Cement mortar 1 : 4 (1 cement :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	4 coarse sand)				
	1.5x0.15x0.02 = 0.005cum.				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.005	3815.05	19.08
	TOTAL				336.12 W
	Add 1 % Water charges on "W"				3.36
	TOTAL				339.49 X
	Add GST (multiplying factor 0.1405) on "X"				47.70
	TOTAL				387.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.08
	Total				445.26 Z
	Add Cess @ 1% on "Z"				4.45
	Cost for 1.5 metre				449.71
	Cost per metre				299.81
	Say				299.80
8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.				
	Details of cost for providing an opening of required size and shape				
	LABOUR				
0026	Mason (for ornamental stone work) 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	15.30	2.00	30.60
	TOTAL				349.33 W
	Add 1 % Water charges on "W"				3.49
	TOTAL				352.83 X
	Add GST (multiplying factor 0.1405) on "X"				49.57
	TOTAL				402.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				60.36
	Total				462.76 Z
	Add Cess @ 1% on "Z"				4.63
	Cost of each				467.38
	Say				467.40
8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.				
	Details of cost for 10 sqm.				
	LABOUR				
013	Machine for rubbing of floors	day	1.00	300.00	300.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	2.50	320.83	802.08
0011	Bhisti	day	1.50	320.83	481.25
9999	Sundries grease, mop grinding stones etc.	L.S.	65.00	2.00	130.00
	TOTAL				1713.32 W
	Add 1 % Water charges on "W"				17.13
	TOTAL				1730.45 X
	Add GST (multiplying factor 0.1405) on "X"				243.13
	TOTAL				1973.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				296.04
	Total				2269.62 Z
	Add Cess @ 1% on "Z"				22.70
	Cost for 10 sqm.				2292.32
	Cost per sqm.				229.23
	Say				229.25

8.7 Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).

8.7.1 Gunmetal cramps

Details of cost for 10 no cramps

MATERIAL

Gun metal cramp

$$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$$

$$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$$

$$= 13.3 \times 10^{-5}$$

$$\text{less hole } 10 \times 0.024 \times 0.010 \times 0.006 =$$

$$1.4 \times 10^{-5}$$

$$= 11.9 \times 10^{-5} \times 8640 = 1.03 \text{ kg Add wastage @ 5\%}$$

$$= 0.051 \text{ kg.}$$

$$\text{Total} = 1.08 \text{ kg.}$$

7338	Gun metal cramp	kilogram	1.08	315.00	340.20
9977	Carriage	L.S.	3.90	2.00	7.80
	Cement mortar 1:2 (1 cement : 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5150.60	5.15
9999	Labour for fixing in position	L.S.	65.00	2	130.00
	TOTAL				483.15 W
	Add 1 % Water charges on "W"				4.83
	TOTAL				487.98 X
	Add GST (multiplying factor 0.1405) on "X"				68.56
	TOTAL				556.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				83.48
	Total				640.03 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				6.40
	Cost for 1.03 kg.				646.43
	Cost per kg				627.60
	Say				627.60
8.7.2	Stainless steel cramps				
	Details of cost for 10 nos				
	MATERIAL				
	Stainless steel cramp				
	$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$				
	$= 13.3 \times 10^{-5}$				
	less hole $10 \times 0.024 \times 0.010 \times 0.006 =$				
	1.4×10^{-5}				
	$= 11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg}$ Add wastage @ 5%				
	$= 0.047 \text{ kg.}$				
	Total = 0.981 kg.				
7339	Stainless steel cramp	kilogram	0.981	290.00	284.49
9977	Carriage	L.S.	3.90	2.00	7.80
	Cement mortar 1:2 (1 cement : 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5150.60	5.15
9999	Labour for fixing in position	L.S.	65.00	2	130.00
	TOTAL				427.44 W
	Add 1 % Water charges on "W"				4.27
	TOTAL				431.72 X
	Add GST (multiplying factor 0.1405) on "X"				60.66
	TOTAL				492.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.86
	Total				566.23 Z
	Add Cess @ 1% on "Z"				5.66
	Cost for 0.934 kg.				571.89
	Cost per kg				612.30
	Say				612.30
8.8	Providing and fixing expansion hold fasteners on C.C. / R.C.C. / Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.				
8.8.1	Wedge expansion type				
8.8.1.1	Fastener with threaded dia 6 mm				
	Details of cost for 30nos. W.E.H. fastener				
	MATERIAL				
7430	Wedge expansion hold fastner 1/4" or 6 mm 36.5mm length	each	30.00	11.00	330.00
1034	Bolts and nuts upto 300 mm in length (36.5+10mm)	quintal	0.0045	4800.00	21.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.25	320.83	80.21
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	2.00	65.00
	TOTAL				615.81 W
	Add 1 % Water charges on "W"				6.16
	TOTAL				621.97 X
	Add GST (multiplying factor 0.1405) on "X"				87.39
	TOTAL				709.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				106.40
	Total				815.75 Z
	Add Cess @ 1% on "Z"				8.16
	Cost for 30 nos.				823.91
	Cost of each				27.46
	Say				27.45

8.8.1.2 Fastener with threaded dia 10 mm

Details of cost for 30nos. W.E.H. fastener

MATERIAL

7431	Wedge expansion hold fastner 3/8" or 10 mm 44.5mm length	each	30.00	11.00	330.00
1034	Bolts and nuts upto 300 mm in length (44.5+10mm)	quintal	0.006	4800.00	28.80

LABOUR

0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.25	320.83	80.21
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	2.00	65.00
	TOTAL				623.01 W
	Add 1 % Water charges on "W"				6.23
	TOTAL				629.24 X
	Add GST (multiplying factor 0.1405) on "X"				88.41
	TOTAL				717.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.65
	Total				825.29 Z
	Add Cess @ 1% on "Z"				8.25
	Cost for 30 nos.				833.55
	Cost of each				27.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				27.80
8.8.1.3 Fastener with threaded dia 12 mm					
Details of cost for 30nos. W.E.H. fastener					
MATERIAL					
7432	Wedge expansion hold fastner 1/2" or 12 mm 58.7mm length	each	30.00	27.00	810.00
1034	Bolts and nuts upto 300 mm in length Length (58.7+10mm) @ 0.05 kg./each	quintal	0.0075	4800.00	36.00
LABOUR					
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.25	320.83	80.21
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	2.00	65.00
TOTAL					1110.21 W
Add 1 % Water charges on "W"					11.10
TOTAL					1121.31 X
Add GST (multiplying factor 0.1405) on "X"					157.54
TOTAL					1278.85 Y
Add 15 % Contractor's profit and overheads on "Y"					191.83
Total					1470.68 Z
Add Cess @ 1% on "Z"					14.71
Cost for 30 nos.					1485.39
Cost of each					49.51
Say					49.50

8.9 Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.

8.9.1 8mm thick

8.9.1.1 Raj nagar plain white marble/ Udaipur green marble/ Zebra black marble

Details of cost for 1 sqm.					
MATERIAL					
8mm thick marble tiles.					
Qty. = 1.00 sqm. +					
Add wastage @ 2.5% = 0.025 sqm.					
Total = 1.025 sqm.					
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	1.025	400.00	410.00
9977	Carriage of tiles Cement mortar 1:3 (1 cement : 3 coarse sand)	L.S.	3.95	2.00	7.90
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4469.50	62.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for pointing	L.S.	25.38	2.00	50.76
367	Portland Cement	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries etc.	L.S.	16.90	2.00	33.80
	TOTAL				1378.17 W
	Add 1 % Water charges on "W"				13.78
	TOTAL				1391.95 X
	Add GST (multiplying factor 0.1405) on "X"				195.57
	TOTAL				1587.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				238.13
	Total				1825.64 Z
	Add Cess @ 1% on "Z"				18.26
	Cost for 1 sqm.				1843.90
	Say				1843.90

8.9.1.2 Granite of any colour and shade

Details of cost for 1 sqm.

8mm thick Granite tiles.

Qty. = 1.00 sqm. +

Add wastage @ 2.5% = 0.025 sqm.

Total = 1.025 sqm.

2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	1.025	700.00	717.50
9977	Carriage of tiles	L.S.	3.95	2.00	7.90
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4469.50	62.57
9999	Mortar for pointing	L.S.	25.38	2.00	50.76
367	Portland Cement	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries etc.	L.S.	16.90	2.00	33.80
	TOTAL				1685.67 W
	Add 1 % Water charges on "W"				16.86
	TOTAL				1702.52 X
	Add GST (multiplying factor 0.1405) on "X"				239.20
	TOTAL				1941.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				291.26
	Total				2232.98 Z
	Add Cess @ 1% on "Z"				22.33
	Cost for 1 sqm.				2255.31
	Say				2255.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
8.10.1	White Agaria Marble Stone				
	Details of cost for one No or 0.375 sqm.				
	MATERIAL				
	Agaria Marble Stone 1 X 0.75 X 0.50 =				
	0.375 sqm				
	Add wastage 20% = 0.075 sqm.				
	Total = 0.45sqm.				
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	0.45	1620.00	729.00
9999	Cement concrete 1:2:4 for filling	L.S.	21.58	2.00	43.16
9999	Labour for fixing, edge rounding and final polishing .	L.S.	43.16	2.00	86.32
9999	Sundries	L.S.	21.58	2.00	43.16
	TOTAL				901.64 W
	Add 1 % Water charges on "W"				9.02
	TOTAL				910.66 X
	Add GST (multiplying factor 0.1405) on "X"				127.95
	TOTAL				1038.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				155.79
	Total				1194.39 Z
	Add Cess @ 1% on "Z"				11.94
	Cost of 0.375sqm				1206.34
	Cost of 1.00 sqm				3216.90
	Say				3216.90

8.10.2 Granite Stone of approved shade

Details of cost for one No or 0.375sqm.

MATERIAL

Granite Stone 1x0.75x0.50 = 0.375sqm.+ Add wastage 20% = 0.075 sqm.
Total = 0.45 sqm.

7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	sqm	0.45	1620.00	729.00
9999	Cement concrete 1:2:4 for fixing	L.S.	21.58	2.00	43.16
9999	Labour for fixing, edge rounding and final polishing .	L.S.	43.16	2.00	86.32
9999	Sundries	L.S.	21.58	2.00	43.16
	TOTAL				901.64 W
	Add 1 % Water charges on "W"				9.02
	TOTAL				910.66 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				127.95
	TOTAL				1038.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				155.79
	Total				1194.39 Z
	Add Cess @ 1% on "Z"				11.94
	Cost of 0.375 sqm				1206.34
	Cost of 1.00 sqm				3216.90
	Say				3216.90
8.11	Providing and fixing machine cut, mirror/ eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge."a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.				
	Details of cost for 0.5 sqm				
	MATERIAL				
	Finished work= 0.5 sqm				
	Add for wastage @ 20%=0.1 sqm				
	Total 0.60 sqm				
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	0.60	3209.00	1925.40
2216	Carriage of stone slab	tonne	0.03	94.34	2.83
	Cement mortar 1:3 (1 Cement:3 Coarse sand)				
3.8	Rate as per Item No.3.8 of SH: MORTARS	cum	0.008	4469.50	35.76
368	White Cement	tonne	0.00165	11200.00	18.48
	Slurry @ 3.3kg/sqm				
2209	Carriage of white Cement	tonne	0.00165	94.34	0.16
9999	Mortar for pointing in white cement (11.22)	L.S.	25.35	2.00	50.70
	LABOUR :				
	FOR fixing				
0026	Mason (for ornamental stone work) 1st class	day	0.335	476.00	159.46
0010	Bandhani	day	0.335	320.83	107.48
0017	Beldar	day	0.335	320.83	107.48
0018	Coolie	day	0.335	320.83	107.48
0011	Bhisti	day	0.335	320.83	107.48
0028	Mate	day	0.165	320.83	52.94
0012	Blacksmith 1st class	day	0.135	476.00	64.26
9999	Scaffolding	L.S.	13.39	2.00	26.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2766.67 W
	Add 1 % Water charges on "W"				27.67
	TOTAL				2794.34 X
	Add GST (multiplying factor 0.1405) on "X"				392.60
	TOTAL				3186.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				478.04
	Total				3664.98 Z
	Add Cess @ 1% on "Z"				36.65
	Cost of 0.5 sqm				3701.63
	Cost of 1 sqm				7403.27
	Say				7403.25

8.14 Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :

8.14.1 Red sand stone - exposed face fine dressed with rough backing.

8.14.1.1 70 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 70 cu dm. +

Add wastage @ 33.3% = 23.33 cu dm.

Total = 93.33 cu dm.

1160	Red sand stone block	10 cu dm	9.333	79.00	737.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.34	20.28
9999	Extra for using white cement Dressing charges	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2270.82 W
	Add 1 % Water charges on "W"				22.71
	TOTAL				2293.53 X
	Add GST (multiplying factor 0.1405) on "X"				322.24
	TOTAL				2615.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				392.37
	Total				3008.14 Z
	Add Cess @ 1% on "Z"				30.08
	Cost of 1 sqm.				3038.22
	Say				3038.20

8.14.1.2 60 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 60 cu dm.

Add wastage @ 33.3% = 20 cu dm.

Total = 80 cu dm.

1160	Red sand stone block	10 cu dm	8.00	79.00	632.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	94.34	17.36
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2162.59 W
	Add 1 % Water charges on "W"				21.63
	TOTAL				2184.22 X
	Add GST (multiplying factor 0.1405) on "X"				306.88
	TOTAL				2491.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				373.67
	Total				2864.77 Z
	Add Cess @ 1% on "Z"				28.65
	Cost of 1 sqm.				2893.41
	Say				2893.40

8.14.1.3 50 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 50 cu dm.

Add wastage @ 33.3% = 16.7 cu dm.

Total = 66.7 cu dm.

1160	Red sand stone block	10 cu dm	6.67	79.00	526.93
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.153	94.34	14.43
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2054.60 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				20.55
	TOTAL				2075.14 X
	Add GST (multiplying factor 0.1405) on "X"				291.56
	TOTAL				2366.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				355.01
	Total				2721.71 Z
	Add Cess @ 1% on "Z"				27.22
	Cost of 1 sqm.				2748.92
	Say				2748.90

8.14.1.4 40 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 40 cu dm.

Add wastage @ 33.3% = 13.33 cu dm.

Total = 53.33 cu dm.

1160	Red sand stone block	10 cu dm	5.333	79.00	421.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	94.34	11.60
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				1946.14 W
	Add 1 % Water charges on "W"				19.46
	TOTAL				1965.61 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				276.17
	TOTAL				2241.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				336.27
	Total				2578.04 Z
	Add Cess @ 1% on "Z"				25.78
	Cost of 1 sqm.				2603.82
	Say				2603.80

8.14.1.5 30 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 30 cu dm.

Add wastage @ 33.3% = 9.99 cu dm.

Total = 39.99 cu dm.

1160	Red sand stone block	10 cu dm	3.999	79.00	315.92
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.092	94.34	8.68
9999	Extra for using white cement Dressing charges LABOUR	L.S.	26.91	2.00	53.82
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				1837.83 W
	Add 1 % Water charges on "W"				18.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1856.21 X
	Add GST (multiplying factor 0.1405) on "X"				260.80
	TOTAL				2117.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				317.55
	Total				2434.56 Z
	Add Cess @ 1% on "Z"				24.35
	Cost of 1 sqm.				2458.91
	Say				2458.90

8.14.2 Red sand stone - Exposed face machine cut and table rubbed with rough backing.

8.14.2.1 70 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 70 cu dm.

Add wastage @ 33.3% = 23.33 cu dm.

Total = 93.33 cu dm.

1160	Red sand stone block	10 cu dm	9.333	79.00	737.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.34	20.28
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2971.30 W
	Add 1 % Water charges on "W"				29.71
	TOTAL				3001.01 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				421.64
	TOTAL				3422.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				513.40
	Total				3936.05 Z
	Add Cess @ 1% on "Z"				39.36
	Cost of 1 sqm.				3975.41
	Say				3975.40

8.14.2.2 60 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 60 cu dm.

Add wastage @ 33.3% = 20 cu dm.

Total = 80 cu dm.

1160	Red sand stone block	10 cu dm	8.00	79.00	632.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	94.34	17.36
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2863.06 W
	Add 1 % Water charges on "W"				28.63
	TOTAL				2891.69 X
	Add GST (multiplying factor 0.1405) on "X"				406.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3297.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				494.70
	Total				3792.67 Z
	Add Cess @ 1% on "Z"				37.93
	Cost of 1 sqm.				3830.60
	Say				3830.60

8.14.2.3 50 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 50 cu dm.

Add wastage @ 33.3% = 16.7 cu dm.

Total = 66.7 cu dm.

1160	Red sand stone block	10 cu dm	6.67	79.00	526.93
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.153	94.34	14.43
9999	Extra for using white cement Dressing charges	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2755.07 W
	Add 1 % Water charges on "W"				27.55
	TOTAL				2782.62 X
	Add GST (multiplying factor 0.1405) on "X"				390.96
	TOTAL				3173.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				476.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3649.62 Z
	Add Cess @ 1% on "Z"				36.50
	Cost of 1 sqm.				3686.11
	Say				3686.10
8.14.2.4 40 mm thick					
	Details of cost for 1 sqm.				
	MATERIAL				
	Finished work = 40 cu dm.				
	Add wastage @ 33.3% = 13.33 cu dm.				
	Total = 53.33 cu dm.				
1160	Red sand stone block	10 cu dm	5.333	79.00	421.31
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	94.34	11.60
9999	Extra for using white cement Dressing charges LABOUR	L.S.	26.91	2.00	53.82
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2646.62 W
	Add 1 % Water charges on "W"				26.47
	TOTAL				2673.08 X
	Add GST (multiplying factor 0.1405) on "X"				375.57
	TOTAL				3048.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				457.30
	Total				3505.95 Z
	Add Cess @ 1% on "Z"				35.06
	Cost of 1 sqm.				3541.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				3541.00

8.14.2.5 30 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 30 cu dm.

Add wastage @ 33.3% = 9.99 cu dm.

Total = 39.99 cu dm.

1160	Red sand stone block	10 cu dm	3.999	79.00	315.92
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.092	94.34	8.68
9999	Extra for using white cement Dressing charges	L.S.	26.91	2.00	53.82

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73

Fixing charges

LABOUR

0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80

1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00

9999	Scaffolding	L.S.	19.76	2.00	39.52

Mortar for laying and pointing

3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45

TOTAL 2538.31 W

Add 1 % Water charges on "W" 25.38

TOTAL 2563.69 X

Add GST (multiplying factor 0.1405) on "X" 360.20

TOTAL 2923.89 Y

Add 15 % Contractor's profit and overheads on "Y" 438.58

Total 3362.47 Z

Add Cess @ 1% on "Z" 33.62

Cost of 1 sqm. 3396.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				3396.10

8.14.3 White sand stone - exposed face fine dressed with rough backing .

8.14.3.1 70 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 70 cu dm.

Add wastage @ 33.3% = 23.33 cu dm.

Total = 93.33 cu dm.

1161	White sand stone block	10 cu dm	9.333	205.00	1913.27
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.34	20.28
9999	Extra for using white cement Dressing charges	L.S.	26.91	2.00	53.82
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	Day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
Fixing charges					
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
Mortar for laying and pointing					
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
TOTAL					3446.78 W
Add 1 % Water charges on "W"					34.47
TOTAL					3481.25 X
Add GST (multiplying factor 0.1405) on "X"					489.12
TOTAL					3970.37 Y
Add 15 % Contractor's profit and overheads on "Y"					595.55
Total					4565.92 Z
Add Cess @ 1% on "Z"					45.66
Cost of 1 sqm.					4611.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				4611.60
8.14.3.2 60 mm thick					
	Details of cost for 1 sqm.				
	MATERIAL				
	Finished work = 60 cudm.				
	Add wastage @ 33.3% = 20 cudm.				
	Total = 80 cudm.				
1161	White sand stone block	10 cudm	8.00	205.00	1640.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.34	17.36
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				3170.59 W
	Add 1 % Water charges on "W"				31.71
	TOTAL				3202.30 X
	Add GST (multiplying factor 0.1405) on "X"				449.92
	TOTAL				3652.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				547.83
	Total				4200.05 Z
	Add Cess @ 1% on "Z"				42.00
	Cost of 1 sqm.				4242.06
	Say				4242.05

8.14.3.3 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL				
	Finished work = 50 cu dm.				
	Add wastage @ 33.3% = 16.7 cu dm.				
	Total = 66.7 cu dm.				
1161	White sand stone block	10 cu dm	6.67	205.00	1367.35
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cu dm.	tonne	0.153	94.34	14.43
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2895.02 W
	Add 1 % Water charges on "W"				28.95
	TOTAL				2923.97 X
	Add GST (multiplying factor 0.1405) on "X"				410.82
	TOTAL				3334.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				500.22
	Total				3835.00 Z
	Add Cess @ 1% on "Z"				38.35
	Cost of 1 sqm.				3873.35
	Say				3873.35

8.14.3.4 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm.				
	MATERIAL				
	Finished work = 40 cu dm.				
	Add wastage @ 33.3% = 13.3 cu dm.				
	Total = 53.3 cu dm.				
1161	White sand stone block	10 cu dm	5.33	205.00	1092.65
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cu dm.	tonne	0.123	94.34	11.60
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2617.49 W
	Add 1 % Water charges on "W"				26.17
	TOTAL				2643.66 X
	Add GST (multiplying factor 0.1405) on "X"				371.43
	TOTAL				3015.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				452.26
	Total				3467.36 Z
	Add Cess @ 1% on "Z"				34.67
	Cost of 1 sqm.				3502.04
	Say				3502.05

8.14.3.5 30 mm thick

Details of cost for 1 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Finished work = 30 cu dm.				
	Add wastage @ 33.3% = 9.99 cu dm.				
	Total = 39.99 cu dm.				
1161	White sand stone block	10 cu dm	3.999	205.00	819.80
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cu dm.	tonne	0.092	94.34	8.68
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	1.35	374.50	505.58
0012	Blacksmith 1st class	day	0.032	476.00	15.23
0017	Beldar	day	0.224	320.83	71.87
0018	Coolie	day	0.112	320.83	35.93
0010	Bandhani	day	0.224	320.83	71.87
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				2341.71 W
	Add 1 % Water charges on "W"				23.42
	TOTAL				2365.13 X
	Add GST (multiplying factor 0.1405) on "X"				332.30
	TOTAL				2697.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				404.61
	Total				3102.04 Z
	Add Cess @ 1% on "Z"				31.02
	Cost of 1 sqm.				3133.06
	Say				3133.05

8.14.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

8.14.4.1 70 mm thick

Details of cost for 1 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Finished work = 70 cu dm.				
	Add wastage @ 33.3% = 23.33 cu dm.				
	Total = 93.33 cu dm.				
1161	White sand stone block	10 cu dm	9.333	205.00	1913.27
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.34	20.28
9999	Extra for using white cement Dressing charges	L.S.	26.91	2.00	53.82
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				4147.25 W
	Add 1 % Water charges on "W"				41.47
	TOTAL				4188.73 X
	Add GST (multiplying factor 0.1405) on "X"				588.52
	TOTAL				4777.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				716.59
	Total				5493.83 Z
	Add Cess @ 1% on "Z"				54.94
	Cost of 1 sqm.				5548.77
	Say				5548.75

8.14.4.2 60 mm thick

Details of cost for 1 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Finished work = 60 cu dm.				
	Add wastage @ 33.3% = 20 cu dm.				
	Total = 80 cu dm.				
1161	White sand stone block	10 cu dm	8.00	205.00	1640.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	94.34	17.36
9999	Extra for using white cement Dressing charges LABOUR	L.S.	26.91	2.00	53.82
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				3871.06 W
	Add 1 % Water charges on "W"				38.71
	TOTAL				3909.77 X
	Add GST (multiplying factor 0.1405) on "X"				549.32
	TOTAL				4459.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				668.86
	Total				5127.96 Z
	Add Cess @ 1% on "Z"				51.28
	Cost of 1 sqm.				5179.24
	Say				5179.25

8.14.4.3 50 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 50 cu dm.

Add wastage @ 33.3% = 16.7 cu dm.

Total = 66.7 cu dm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1161	White sand stone block	10 cudm	6.67	205.00	1367.35
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cudm.	tonne	0.153	94.34	14.43
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				3595.49
	Add 1 % Water charges on "W"				35.95
	TOTAL				3631.44 X
	Add GST (multiplying factor 0.1405) on "X"				510.22
	TOTAL				4141.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				621.25
	Total				4762.91 Z
	Add Cess @ 1% on "Z"				47.63
	Cost of 1 sqm.				4810.54
	Say				4810.55

8.14.4.4 40 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 40 cudm.

Add wastage @ 33.3% = 13.3 cudm.

Total = 53.3 cudm.

1161	White sand stone block	10 cudm	5.33	205.00	1092.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cudm.	tonne	0.123	94.34	11.60
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				3317.96
	Add 1 % Water charges on "W"				33.18
	TOTAL				3351.14 X
	Add GST (multiplying factor 0.1405) on "X"				470.84
	TOTAL				3821.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				573.30
	Total				4395.27 Z
	Add Cess @ 1% on "Z"				43.95
	Cost of 1 sqm.				4439.22
	Say				4439.20

8.14.4.5 30 mm thick

Details of cost for 1 sqm.

MATERIAL

Finished work = 30 cudm.

Add wastage @ 33.3% = 9.99 cudm.

Total = 39.99 cudm.

1161	White sand stone block	10 cudm	3.999	205.00	819.80
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cudm.	tonne	0.092	94.34	8.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Dressing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	2.70	374.50	1011.15
0012	Blacksmith 1st class	day	0.064	476.00	30.46
0017	Beldar	day	0.448	320.83	143.73
0018	Coolie	day	0.224	320.83	71.87
0010	Bandhani	day	0.448	320.83	143.73
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class)	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				3042.18 W
	Add 1 % Water charges on "W"				30.42
	TOTAL				3072.60 X
	Add GST (multiplying factor 0.1405) on "X"				431.70
	TOTAL				3504.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				525.65
	Total				4029.95 Z
	Add Cess @ 1% on "Z"				40.30
	Cost of 1 sqm.				4070.25
	Say				4070.25

8.14.5 Gang saw cut stone

8.14.5.1 30mm thick White sand stone

Details of cost for 1 sqm.

MATERIAL

1.00 sqm + 0.05 sqm

(Add wastage @ 5%) = 1.05 sqm

8684	White sand stone gang saw cut 30 mm thick	sqm	1.05	560.00	588.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cudm.	tonne	0.072	94.34	6.79
9999	Extra for using white cement	L.S.	26.91	2.00	53.82
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class	day	0.448	374.50	167.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
0011	Bhisti	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				1407.55 W
	Add 1 % Water charges on "W"				14.08
	TOTAL				1421.63 X
	Add GST (multiplying factor 0.1405) on "X"				199.74
	TOTAL				1621.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				243.21
	Total				1864.57 Z
	Add Cess @ 1% on "Z"				18.65
	Cost of 1 sqm.				1883.22
	Say				1883.20

8.14.5.2 30mm thick Red sand stone

Details of cost for 1 sqm.

MATERIAL

1.00 sqm + 0.05 sqm

(Add wastage @ 5%) = 1.05 sqm

8683	Red sand stone gang saw cut 30 mm thick	sqm	1.05	425.000	446.25
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30 kg/cudm.	tonne	0.072	94.338	6.79
9999	Extra for using white cement	L.S.	26.91	2.000	53.82
	Fixing charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class	day	0.448	374.500	167.78
0010	Bandhani	day	0.336	320.830	107.80
0017	Beldar	day	0.336	320.830	107.80
0018	Coolie	day	0.336	320.830	107.80
0011	Bhisti	day	0.336	320.830	107.80
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device	metre	4.00	10.000	40.00
9999	Scaffolding	L.S.	19.76	2.000	39.52
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.80	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4469.50	80.45
	TOTAL				1265.80 W
	Add 1 % Water charges on "W"				12.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1278.46 X
	Add GST (multiplying factor 0.1405) on "X"				179.62
	TOTAL				1458.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				218.71
	Total				1676.80 Z
	Add Cess @ 1% on "Z"				16.77
	Cost of 1 sqm.				1693.57
	Say				1693.55

8.15 Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required.

Details of cost for one cramp of 0.934kg

MATERIAL

Stainless steel cramp

$$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$$

$$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$$

$$= 13.3 \times 10^{-5}$$

$$\text{less hole } 10 \times 0.024 \times 0.010 \times 0.006$$

$$= 1.4 \times 10^{-5}$$

$$= 11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg Add wastage @ 5\%}$$

$$= 0.047 \text{ kg.}$$

$$\text{Total} = 0.981 \text{ kg.}$$

7339	Stainless steel cramp	kilogram	0.981	290.00	284.49
9977	CARRIAGE	L.S.	3.90	2.00	7.80
	Cement mortar 1:2 (1 cement : 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5150.60	5.15
9999	Labour for fixing in position	L.S.	65.00	2.00	130.00
	TOTAL				427.44 W
	Add 1 % Water charges on "W"				4.27
	TOTAL				431.72 X
	Add GST (multiplying factor 0.1405) on "X"				60.66
	TOTAL				492.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.86
	Total				566.23 Z
	Add Cess @ 1% on "Z"				5.66
	Cost for 0.934 kg.				571.89
	Cost per kg				612.30
	Say				612.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.16	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases.				
	Details of cost for one copper pin				
	MATERIAL				
873	Copper pins 6 mm dia 7.5 cm long	each	1.00	10.00	10.00
9999	Labour for making pin in to required shape and size, cutting chases in stone and fixing in position Cement mortar 1:2 (1 cement : 2 coarse sand)	L.S.	3.90	2.00	7.80
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5150.60	5.15
9999	Sundries including hire charges of hand cut machine e	L.S.	1.95	2	3.90
	TOTAL				26.85 W
	Add 1 % Water charges on "W"				0.27
	TOTAL				27.12 X
	Add GST (multiplying factor 0.1405) on "X"				3.81
	TOTAL				30.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				4.64
	Total				35.57 Z
	Add Cess @ 1% on "Z"				0.36
	Cost of one copper pin				35.92
	Say				35.90
8.17	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.				
	Details of cost for 1sqm. Dholpur stone 40mm thick				
	Wall face = 1.00sqm.				
	Deduct for embedded portion 3x0.04x1.0 = 0.12 sqm.				
	= 0.88sqm.				
	Add wastage 5% = 0.04sqm.				
	Total = 0.92 sqm.				
1165	White sand stone slab 40 mm thick (un-dressed) 75mm thick 3x0.04x1.0 = 0.12 sqm. Add wastage 5% = 0.01 sqm. Total = 0.13 sqm.	sqm	0.92	200.00	184.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	0.13	900.00	117.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of Stone blocks white & red sand stone & kota stone slab 0.92x0.04 = 0.0368 cum. 0.13x0.075 = 0.0100 cum. = 0.0468 cum. or 468 cudm. 468 cudm @ 2.3 kg/cudm = 108 kg = 0.108 tonne	tonne	0.108	94.337829	10.19
1237	Cutting marble or sand stone slab upto 50 mm thick by mechanical device Assuming 50mm thick strips 20x1.0 = 20 metre Mortar with coarse sand 1:3 for (a) stone backing 12mm thick = 0.0144 cum. (b) for fixing of stone = 0.40/25 = 0.0160 cum. Total = 0.0304 cum.	metre	20.00	10.00	200.00
3.8	Rate as per Item Number 3.8 of SH: Mortars Cutting chases and making good with mortar after insurting stone etc.	cum	0.0304	4469.50	135.87
18.78	Rate as per Item Number 18.78 of SH: Water	metre	3.00	97.70	293.10 A
9999	White cement and pigment for pointing LABOUR	L.S.	40.43	2.00	80.86
0026	Mason (for ornamental stone work) 1st class	day	0.25	476.00	119.00
0025	Mason (for plain stone work) 2nd class)	day	0.25	374.50	93.63
0017	Beldar	day	0.50	320.83	160.42
0011	Bhisti	day	0.03	320.83	9.62
9999	Sundries and scaffolding brushes etc.	L.S.	26.91	2.00	53.82
	TOTAL				1457.51 W
	Add 1 % Water charges on "W-A"		1164.41		11.64
	TOTAL				1469.15 X
	Add GST (multiplying factor 0.1405) on "X-A"		1176.05		165.24
	TOTAL				1634.39 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1341.29		201.19
	Total				1835.58 Z
	Add Cess @ 1% on "Z-A"		1542.48		15.42
	Cost of 1sqm.				1851.00
	Say				1851.00

8.18 Stone work (machine cut edges Veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).

8.18.1 Kota stone slabs exposed face dressed and rubbed.

8.18.1.1 25 mm thick

Details of cost for 10sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
25mm thick kota stone slabs = 10 sqm.					
Add 15% wastage = 1.50 sqm.					
Total = 11.50 sqm.					
1169	Kotastone slab 25mm thick (rough cheseled)	sq.m.	11.5	301.00	3461.50
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.34	63.21
Cement mortar 1:3 (1 cement : 3 coarse sand)					
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
9999	Cement mortar for pointing.	L.S.	40.43	2.00	80.86
LABOUR					
0025	Mason (for plain stone work) 2nd class)	day	6.50	374.50	2434.25
0017	Beldar	day	6.50	320.83	2085.40
0018	Coolie	day	4.30	320.83	1379.57
0037	Skilled Beldar (for floor rubbing etc.)	day	10.80	320.83	3464.96
9999	Sundries	L.S.	111.54	2.00	223.08
TOTAL					13836.43 W
Add 1 % Water charges on "W"					138.36
TOTAL					13974.80 X
Add GST (multiplying factor 0.1405) on "X"					1963.46
TOTAL					15938.26 Y
Add 15 % Contractor's profit and overheads on "Y"					2390.74
Total					18328.99 Z
Add Cess @ 1% on "Z"					183.29
Cost for 10 sqm.					18512.28
Cost of 1 sqm.					1851.23
Say					1851.25
8.19	Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.				
Detail of cost for 10 sqm					
Analysis same as Item Number 13.74					
MATERIAL					
9999	Scaffolding	L.S.	215.28	2.00	430.56
0023	Mason (brick layer) 1st class	day	0.30	476.00	142.80
0017	Beldar	day	0.30	320.83	96.25
0011	Bhisti	day	0.15	320.83	48.12
9999	Sundries	L.S.	28.60	2.00	57.20
TOTAL					774.93 W
Add 1 % Water charges on "W"					7.75
TOTAL					782.68 X
Add GST (multiplying factor 0.1405) on "X"					109.97
TOTAL					892.65 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				133.90
	Total				1026.55 Z
	Add Cess @ 1% on "Z"				10.27
	Cost for 10 sqm.				1036.81
	Cost of 1 sqm.				103.68
	Say				103.70
8.20	Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).				
8.20.1	Red sand stone - 30mm thick gang saw cut stone				
	Details of cost for 1 sqm.				
	MATERIAL				
	Red sand stone = 1.00sqm				
	Add 5% wastage = 0.05sqm				
	Total = 1.05 sqm				
8683	Red sand stone gang saw cut 30 mm thick	sqm	1.05	425.00	446.25
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.072	94.34	6.79
	@ 2.30kg/cudm				
	Fixing Charges				
	LABOUR				
0025	Mason (for plain stone work) 2nd class	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
9999	Fixing including weather sealant and removing	L.S.	51.1	2.00	102.20
9999	Silicon gun/ pump etc.	L.S.	68.25	2.00	136.50
	TOTAL				1262.43 W
	Add 1 % Water charges on "W"				12.62
	TOTAL				1275.06 X
	Add GST (multiplying factor 0.1405) on "X"				179.15
	TOTAL				1454.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				218.13
	Total				1672.34 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				16.72
	Cost of 1 sqm				1689.06
	Say				1689.05

8.20.2 White sand stone - 30mm thick gang saw cut stone

Details of cost for 1 sqm.

MATERIAL

Red sand stone = 1.00sqm

Add 5% wastage = 0.05sqm

Total = 1.05 sqm

8684	White sand stone gang saw cut 30 mm thick	sqm	1.05	560.00	588.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.072	94.34	6.79
	Fixing Charges				

LABOUR

0025	Mason (for plain stone work) 2nd class	day	0.448	374.50	167.78
0010	Bandhani	day	0.336	320.83	107.80
0017	Beldar	day	0.336	320.83	107.80
0018	Coolie	day	0.336	320.83	107.80
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	10.00	40.00
9999	Scaffolding	L.S.	19.76	2.00	39.52
9999	Fixing including weather sealant and removing	L.S.	51.1	2.00	102.20
9999	Silicon gun/ pump etc.	L.S.	68.25	2.00	136.50

TOTAL 1404.18 W

Add 1 % Water charges on "W" 14.04

TOTAL 1418.23 X

Add GST (multiplying factor 0.1405) on "X" 199.26

TOTAL 1617.49 Y

Add 15 % Contractor's profit and overheads on "Y" 242.62

Total 1860.11 Z

Add Cess @ 1% on "Z" 18.60

Cost of 1 sqm 1878.71

Say 1878.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.21	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid). Details of cost for 100.78 kg. M.S. tube 50x25x18mm Vertical 4.0x3.0 mtr = 12.00 Vertical 4.0x3.0x0.93 = 11.16 m Total = 23.16 mtr Add 10% wastage = 2.32 m Total 25.48mtr @ 2.02 kg/m = 51.47 kg				
4009	Mild steel tubes hot finished welded type Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total=12.00 Add 10% wastage = 1.20m Total=13.20m @4.50kg/m=59.40kg or 0.594 q	kilogram	51.47	57.00	2933.79
1007	Structurals such as tees, angles channels and R.S. joists Cement concrete 1:2:4 = 16x0.30x0.23x 0.30=0.331 cum	quintal	0.594	4600.00	2732.40
4.1.3	Rate as per item no. 4.1.3 of SH : concrete work Making holes in brick work=16nos. LABOUR	cum	0.331	5954.35	1970.89 A
0023	Mason (brick layer) 1st class	day	0.26	476.00	123.76
0024	Mason (brick layer) 2nd class	day	0.26	374.50	97.37
0017	Beldar Welding for frame welding 16x(2.5+5+2.5+5) = 240 cm For hold fast 16x20cm = 320cm Total = 560cm	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1215	Welding by electric plant LABOUR	cm	560.00	2.00	1120.00
0012	Blacksmith 1st class	day	1.34	476.00	637.84
0010	Bandhani	day	0.67	320.83	214.96
0017	Beldar	day	4.92	320.83	1578.48
9999	Sundries	L.S.	80.73	2.00	161.46
	Painting with epoxy paint over and including priming coat area 22.80x0.15 = 3.42 12x0.2 = 2.40 Total = 5.82sqm				
13.52.1	Rate as per Item no. 13.52.1 of SH: Finishing	sqm	5.82	132.50	771.15 A
9999	For labour scaffolding etc	L.S.	80.73	2.00	161.46
	Total				13145.22 W
	Add 1 % Water charges on "W-A"	10403.18			104.03
	TOTAL				13249.25 X
	Add GST (multiplying factor 0.1405) on "X-A"	10507.21			1476.26
	TOTAL				14725.51 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	11983.47			1797.52
	Total				16523.04 Z
	Add Cess @ 1% on "Z-A"	13781.00			137.81
	Cost for 100.78 kg				16660.85
	Cost for 1 kg				165.32
	Say				165.30

8.22 Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.

Details of cost for 10 Nos.

8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding LABOUR	each	10.00	100.00	1000.00
	For making holes, recesses etc. and fixing of stainless				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0024	Mason (brick layer) 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	1.10	320.83	352.91
9999	Scaffolding, hire charges of drill machine etc.	L.S.	20.80	2.00	41.60
9999	Sundries	L.S.	20.80	2.00	41.60
	Total				1848.06 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				18.48
	TOTAL				1866.54 X
	Add GST (multiplying factor 0.1405) on "X"				262.25
	TOTAL				2128.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				319.32
	Total				2448.11 Z
	Add Cess @ 1% on "Z"				24.48
	Cost for 10 Nos.				2472.59
	Cost for 1 Nos.				247.26
	Say				247.25

8.23 Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.

Details of cost for 100 Nos.

MATERIAL

Teak wood (2nd class)

100x(50x50x50)mm = 0.0125cum Add wastage @

10% = 0.0013 cum.

Total = 0.0138 cum.

Say 14 cudm.

1189	Second class teak wood in scantling	10 cudm	1.40	776.00	1086.40
2204	Carriage of Timber	cum	0.014	121.29	1.70
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of	cum	0.002	3988.00	7.98
	SH: Mortars				
	LABOUR				
0015	Carpenter 2nd class	day	0.75	374.50	280.88
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.75	320.83	240.62
	TOTAL				1898.45 W
	Add 1 % Water charges on "W"				18.98
	TOTAL				1917.43 X
	Add GST (multiplying factor 0.1405) on "X"				269.40
	TOTAL				2186.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				328.02
	Total				2514.85 Z
	Add Cess @ 1% on "Z"				25.15
	Cost of 100 nos.				2540.00
	Cost of 1 no.				25.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				25.40
8.24	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete.				
8.24.1	25 mm long				
	Details of cost of 10 nos.				
	MATERIAL				
7312	Expandable fastner with plastic sleeve and M.S. screws. 25 mm long	each	10.00	10.00	100.00
9999	Labour for drilling holes and making good etc.	L.S.	20.80	2.00	41.60
	TOTAL				141.60 W
	Add 1 % Water charges on "W"				1.42
	TOTAL				143.02 X
	Add GST (multiplying factor 0.1405) on "X"				20.09
	TOTAL				163.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.47
	Total				187.58 Z
	Add Cess @ 1% on "Z"				1.88
	Cost of 10 nos.				189.45
	Cost of 1 no.				18.95
	Say				18.95
8.24.2	32 mm long				
	Details of cost of 10 nos.				
	MATERIAL				
7313	Expandable fastner with plastic sleeve and M.S. screws. 32 mm long	each	10.00	10.00	100.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	2.00	52.00
	TOTAL				152.00 W
	Add 1 % Water charges on "W"				1.52
	TOTAL				153.52 X
	Add GST (multiplying factor 0.1405) on "X"				21.57
	TOTAL				175.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				26.26
	Total				201.35 Z
	Add Cess @ 1% on "Z"				2.01
	Cost of 10 nos.				203.37
	Cost of 1 no.				20.34
	Say				20.35
8.24.3	40 mm long				
	Details of cost of 10 nos.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7314	Expandable fastner with plastic sleeve and M.S. screws. 40 mm long	each	10.00	13.00	130.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	2.00	52.00
	TOTAL				182.00 W
	Add 1 % Water charges on "W"				1.82
	TOTAL				183.82 X
	Add GST (multiplying factor 0.1405) on "X"				25.83
	TOTAL				209.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.45
	Total				241.09 Z
	Add Cess @ 1% on "Z"				2.41
	Cost of 10 nos.				243.50
	Cost of 1 no.				24.35
	Say				24.35

8.24.4 50 mm long

Details of cost of 10 nos.

MATERIAL

7315	Expandable fastner with plastic sleeve and M.S. screws. 50 mm long	each	10.00	14.00	140.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	2.00	52.00
	TOTAL				192.00 W
	Add 1 % Water charges on "W"				1.92
	TOTAL				193.92 X
	Add GST (multiplying factor 0.1405) on "X"				27.25
	TOTAL				221.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.17
	Total				254.34 Z
	Add Cess @ 1% on "Z"				2.54
	Cost of 10 nos.				256.88
	Cost of 1 no.				25.69
	Say				25.70

8.25 Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.

8.25.1 40 mm thick

Details of cost of 10 nos.

MATERIAL

Teak wood (2nd class) 10x0.04m =
0.40cum+

Add wastage @ 10% = 0.04 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.44 cum. Say 440 cudm.				
1190	Second class teak wood in planks	10 cudm	44.00	791.00	34804.00
1231	Extra for selected planks of second class teakwood	10 cudm	44.00	150.00	6600.00
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
8.23	Rate as per item no 8.23 of	each	55.00	25.40	1397.00 A
	SH : Wood work and PVC work Priming coat				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.50 A
2204	Carriage of Timber	cum	0.44	121.29	53.37
	LABOUR				
	For planning and fixing				
0014	Carpenter 1st class	day	2.15	476.00	1023.40
0017	Beldar	day	1.62	320.83	519.74
9999	Sundries & screws etc.	L.S.	53.82	2.00	107.64
	TOTAL				44894.65
	Add 1 % Water charges on "W-A"	43108.15			431.08
	TOTAL				45325.73 X
	Add GST (multiplying factor 0.1405) on "X-A"	43539.23			6117.26
	TOTAL				51443.00 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	49656.50			7448.47
	Total				58891.47 Z
	Add Cess @ 1% on "Z-A"	57104.97			571.05
	Cost of 10 sqm.				59462.52
	Cost of 1 sqm.				5946.25
	Say				5946.25

8.25.2 25 mm thick

Details of cost of 10 nos.

MATERIAL

Teak wood 2nd class 10x0.25 = 0.25cum+ Add wastage @ 10% = 0.025 cum.
Total = 0.275 cum.

Say 275 cudm.

1190	Second class teak wood in planks	10 cudm	27.50	791.00	21752.50
1231	Extra for selected planks of second class teakwood	10 cudm	27.50	150.00	4125.00
2204	Carriage of Timber	cum	0.28	121.29	33.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
8.23	Rate as per item no 8.23 of SH : Wood work Priming coat	each	55.00	25.40	1397.00 A
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	10.00	38.95	389.52 A
0014	Carpenter 1st class	day	2.15	476.00	1023.40
0017	Beldar	day	1.62	320.83	519.74
9999	Sundries & screws etc.	L.S.	53.82	2.00	107.64
	TOTAL				29348.16
	Add 1 % Water charges on "W-A"	27561.64			275.62
	TOTAL				29623.78 X
	Add GST (multiplying factor 0.1405) on "X-A"	27837.26			3911.13
	TOTAL				33534.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31748.39			4762.26
	Total				38297.17 Z
	Add Cess @ 1% on "Z-A"	36510.65			365.11
	Cost of 10 sqm.				38662.28
	Cost of 1.00 sqm.				3866.23
	Say				3866.25

8.25.3 20 mm thick

Details of cost of 10 nos.

MATERIAL

Teak wood (2nd class) 10x0.02m
= 0.20cum.+

Add wastage @ 10% = 0.02 cum.

Total = 0.22 cum.

Say 220 cudm.

1190	Second class teak wood in planks	10 cudm	22.00	791.00	17402.00
1231	Extra for selected planks of second class teakwood	10 cudm	22.00	150.00	3300.00
2204	Carriage of Timber	cum	0.22	121.29	26.68
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
8.23	Rate as per item no 8.23 of SH : Wood work Priming coat	each	55.00	25.40	1397.00 A
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	10.00	38.95	389.52 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	1.08	476.00	514.08
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.08	320.83	346.50
9999	Sundries & screws etc.	L.S.	53.82	2.00	107.64
	TOTAL				23783.02 W
	Add 1 % Water charges on "W-A"	21996.50			219.97
	TOTAL				24002.99 X
	Add GST (multiplying factor 0.1405) on "X-A"	22216.47			3121.41
	TOTAL				27124.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	25337.88			3800.68
	Total				30925.08 Z
	Add Cess @ 1% on "Z-A"	29138.56			291.39
	Cost of 10 sqm.				31216.47
	Cost of 1 sqm.				3121.65
	Say				3121.65

8.25.4 12 mm thick

Details of cost of 10 nos.

Wood-

Second class teak wood

10x0.012 = 0.12 cum+

Add wastage @ 10% = 0.012 cum.

Total = 0.132 cum.

Say 132 cudm.

1190	Second class teak wood in planks	10 cudm	13.20	791.00	10441.20
1231	Extra for selected planks of second class teakwood	10 cudm	13.20	150.00	1980.00
2204	Carriage of Timber	cum	0.13	121.29	16.01
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
8.23	Rate as per item no 8.23 of SH : Wood work	each	55.00	25.40	1397.00 A
	LABOUR				
0014	Carpenter 1st class	day	1.08	476.00	514.08
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.08	320.83	346.50
	Priming coat				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.52 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries & screws etc.	L.S.	53.82	2	107.64
	TOTAL				15491.55
	Add 1 % Water charges on "W-A"	13705.03			137.05
	TOTAL				15628.60 X
	Add GST (multiplying factor 0.1405) on "X-A"	13842.08			1944.81
	TOTAL				17573.41 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	15786.89			2368.03
	Total				19941.45 Z
	Add Cess @ 1% on "Z-A"	18154.92			181.55
	Cost of 10 sqm.				20123.00
	Cost of 1 sqm.				2012.30
	Say				2012.30

8.26 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :

8.26.1 12 mm thick

Details of cost for 10 sqm.

MATERIAL

Particle board (three layer medium density) 12mm thick = 10 sqm.

Add wastage @ 10% = 1 sqm.

Total = 11 sqm.

7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	11.00	540.00	5940.00
9977	Carriage of particle board	L.S.	13.52	2.00	27.04
9999	Sundries and screws Priming coat	L.S.	26.91	2.00	53.82
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.52 A
	LABOUR				
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
	TOTAL				8723.53
	Add 1 % Water charges on "W-A"	8334.01			83.34
	TOTAL				8806.87 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	8417.35			1182.64
	TOTAL				9989.51 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9599.98			1440.00
	Total				11429.51 Z
	Add Cess @ 1% on "Z-A"	11039.98			110.40
	Cost of 10 sqm.				11539.91
	Cost of 1 sqm.				1153.99
	Say				1154.00
8.26.2	18 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
	Particle board (three layer medium density) 18 mm thick = 10 sqm.				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm.				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	11.00	650.00	7150.00
9977	Carriage of particle board	L.S.	13.52	2.00	27.04
9999	Sundries and screws Priming coat	L.S.	26.91	2.00	53.82
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.52 A
	LABOUR				
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
	TOTAL				9933.53 W
	Add 1 % Water charges on "W-A"	9544.01			95.44
	TOTAL				10028.97 X
	Add GST (multiplying factor 0.1405) on "X-A"	9639.45			1354.34
	TOTAL				11383.31 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	10993.79			1649.07
	Total				13032.38 Z
	Add Cess @ 1% on "Z-A"	12642.86			126.43
	Cost of 10 sqm.				13158.81
	Cost of 1 sqm.				1315.88
	Say				1315.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.26.3	25 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
	Particle board (three layer medium density) 25 mm thick = 10 sqm.				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm.				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	11.00	900.00	9900.00
9977	Carriage of particle board	L.S.	13.52	2.00	27.04
9999	Sundries and screws etc Priming coat	L.S.	26.91	2.00	53.82
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	10.00	38.95	389.52 A
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
	TOTAL				12683.53 Z
	Add 1 % Water charges on "W-A"	12294.01			122.94
	TOTAL				12806.47 X
	Add GST (multiplying factor 0.1405) on "X-A"	12416.95			1744.58
	TOTAL				14551.05 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	14161.53			2124.23
	Total				16675.28 Z
	Add Cess @ 1% on "Z-A"	16285.76			162.86
	Cost of 10 sqm.				16838.14
	Cost of 1 sqm.				1683.81
	Say				1683.80
8.27	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.				
8.27.1	Kiln seasoned and chemically treated hollock wood				
	Details of cost for 5 no. battens of size 500cmx50mmx25mm = 31.25 cudm				
	MATERIAL				
	Hollock wood- 5x5.00x0.50x 0.025 = 0.03125 cum				
	Add wastage @ 5% = 0.00156 cum. Total = 0.03281 cum Say 33 cudm.				
2505	Hollock wood in planks	10 cudm	3.30	390.00	1287.00
2204	Carriage of Timber	cum	0.03	121.29	4.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0014	Carpenter 1st class	day	1.00	476.00	476.00
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	6.76	2.00	13.52
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	3.75	38.95	146.06 A
7048	Rawl plug 50 mm (designation 10 no.)	each	55.00	25.00	1375.00
9999	Labour for drilling holes steel tape sundries etc.	L.S.	71.50	2.00	143.00
	TOTAL				3524.79 W
	Add 1 % Water charges on "W-A"	3378.73			33.79
	TOTAL				3558.58 X
	Add GST (multiplying factor 0.1405) on "X-A"	3412.52			479.46
	TOTAL				4038.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	3891.98			583.80
	Total				4621.84 Z
	Add Cess @ 1% on "Z-A"	4475.77			44.76
	Cost of 31.25 cu dm.				4666.59
	Cost of 1 cum.				149330.88
	Say				149330.90
8.28	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :				
8.28.1	Decorative veneer facings of approved manufacture				
	Details of cost for 10sqm.				
	MATERIAL				
	Teak ply wood = 10sqm.				
	Add for wastage @ 20% = 2 sqm.				
	Total = 12 sqm.				
759	Decorative plywood 4 mm	sqm	12.00	320.00	3840.00
9977	Carriage of ply wood	L.S.	5.46	2.00	10.92
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
8.23	Rate as per item no 9.32 of SH : Wood work	each	55.00	25.40	1397.00 A
	LABOUR				
0014	Carpenter 1st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
0030	Mistry	day	0.60	476.00	285.60
9999	20mm nails without head for fixing ply	L.S.	53.82	2.00	107.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Painting with ready mixed priming coat				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.52 A
	TOTAL				9315.30
	Add 1 % Water charges on "W-A"	7528.78			75.29
	TOTAL				9390.59 X
	Add GST (multiplying factor 0.1405) on "X-A"	7604.07			1068.37
	TOTAL				10458.96 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8672.44			1300.87
	Total				11759.83 Z
	Add Cess @ 1% on "Z-A"	9973.30			99.73
	Cost of 10 sqm.				11859.56
	Cost of 1 sqm.				1185.96
	Say				1185.95

8.29 Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842, plain lining

with necessary screws, priming coat on unexposed surface etc., complete.

Details of cost for 10sqm.

MATERIAL

Coir veneered board 4mm thick = 10sqm.

Add for wastage @ 20% = 2 sqm.

Total = 12 sqm.

7552	Coir veneered board 4mm thick	sqm	12.00	290.00	3480.00
9977	Carriage of Coir veneered board	L.S.	5.46	2.00	10.92
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
8.23	Rate as per item no 9.32 of SH : Wood work	each	55.00	25.40	1397.00 A
	LABOUR				
0014	Carpenter 1st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
0030	Mistry	day	0.60	476.00	285.60
9999	20mm nails without head for fixing ply	L.S.	53.82	2.00	107.64
	Priming coat Painting with ready mixed priming coat				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	10.00	38.95	389.52 A
	TOTAL				8955.30
	Add 1 % Water charges on "W-A"	7168.78			71.69
	TOTAL				9026.99 X
	Add GST (multiplying factor 0.1405) on "X-A"	7240.47			1017.29
	TOTAL				10044.27 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"	8257.75			1238.66
	Total				11282.94 Z
	Add Cess @ 1% on "Z-A"	9496.41			94.96
	Cost of 10 sqm.				11377.90
	Cost of 1 sqm.				1137.79
	Say				1137.80
8.30	Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :				
8.30.1	18 mm thick				
	Details of cost for skirting 200mm wide and 30m long				
	Area = 0.2x30= 6 sqm.				
	Area = 0.2x30= 6 sqm.				
	MATERIAL				
	Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm.				
	Total = 6.6 sqm.				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II	sqm	6.60	650.00	4290.00
9977	Carriage of particle board	L.S.	8.11	2.00	16.22
7048	Rawl plug 50 mm (designation 10 no.)	each	102.00	25.00	2550.00
9999	Labour for drilling holes	L.S.	130.00	2.00	260.00
	LABOUR				
	For dressing and fixing particle board to skirting				
0015	Carpenter 2nd class	day	0.77	374.50	288.37
0017	Beldar	day	0.86	320.83	275.91
9999	Sundries (Screws, sand paper)	L.S.	53.82	2.00	107.64
	Painting with ready mixed priming coat at back				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	6.00	38.95	233.71 A
	TOTAL				8021.85 W
	Add 1 % Water charges on "W-A"	7788.14			77.88
	TOTAL				8099.73 X
	Add GST (multiplying factor 0.1405) on "X-A"	7866.02			1105.18
	TOTAL				9204.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8971.20			1345.68
	Total				10550.59 Z
	Add Cess @ 1% on "Z-A"	10316.88			103.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 6 sqm.				10653.76
	Cost of 1 sqm.				1775.63
	Say				1775.65
8.30.2	25 mm thick				
	Details of cost for skirting 200mm wide and 30m long				
	Area = 0.2x30= 6 sqm.				
	Area = 0.2x30= 6 sqm.				
	MATERIAL				
	Teak shade prelaminated Particle board				
	(three layer medium density) = 6.0 sqm.+				
	Add wastage @ 10% = 0.6sqm. Total = 6.6 sqm.				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	6.60	900.00	5940.00
9977	Carriage of particle board	L.S.	8.11	2.00	16.22
7048	Rawl plug 50 mm (designation 10 no.)	each	102.00	25.00	2550.00
9999	Labour for drilling holes	L.S.	130.00	2.00	260.00
	LABOUR				
	For dressing and fixing particle board to skirting				
0015	Carpenter 2nd class	day	0.77	374.50	288.37
0017	Beldar	day	0.86	320.83	275.91
9999	Sundries (Screws, sand paper)	L.S.	53.82	2.00	107.64
	Painting with ready mixed priming coat at back				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	6.00	38.95	233.71 A
	TOTAL				9671.85 W
	Add 1 % Water charges on "W-A"	9438.14			94.38
	TOTAL				9766.23 X
	Add GST (multiplying factor 0.1405) on "X-A"	9532.52			1339.32
	TOTAL				11105.55 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	10871.84			1630.78
	Total				12736.33 Z
	Add Cess @ 1% on "Z-A"	12502.62			125.03
	Cost of 6 sqm.				12861.36
	Cost of 1 sqm.				2143.56
	Say				2143.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Details of cost for 1 sqm MATERIAL Ceramic Glazed tiles = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm				
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	Sq.m.	1.025	212.00	217.30
9977	Carriage of tiles 12 mm thick Cement mortar 1:3 (1 cement : 3 coarse sand)	L.S.	6.24	2.00	12.48
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	40.43	2.00	80.86
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				642.54 W
	Add 1 % Water charges on "W"				6.43
	TOTAL				648.97 X
	Add GST (multiplying factor 0.1405) on "X"				91.18
	TOTAL				740.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				111.02
	Total				851.17 Z
	Add Cess @ 1% on "Z"				8.51
	Cost for 1 sqm				859.68
	Say				859.70
8.32	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

(b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.

(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.

Details of cost for 6.72 sqm

Width of the unit 1.6 m

Area of Single Unit 6.72 sqm

Total Area 6.72 sqm, No of Panels 1 no

Aluminium Weight per sqm = 6.50 Kg/sqm

Vision Height 2.2 m

Sparndrel Height 2.0 m

Details of cost for 6.72 sqm

MATERIALS

2607	Weather Sealant - Non Staining (600 ml)	each	2.00	325.00	650.00
2608	Weather Sealant - Normal (300 ml)	each	2.00	98.00	196.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	10.00	100.00	1000.00
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	0.70	150.00	105.00
2612	Anchor Fastner - M10	each	2.00	10.00	20.00
2613	SS Bolt with washer of different sizes for structural glazing / ACP Cladding	each	2.00	35.00	70.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	49.00	3.00	147.00
2615	Protective Tape	metre	7.00	20.00	140.00
2630	Baker rod	metre	5.00	5.00	25.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2616	GI flashing - 1.2 mm Thick	kg	4.00	59.00	236.00
2631	4 mm thick ACP	sqm	7.06	1100.00	7766.00
9999	Sundries	L.S.	451.00	2.00	902.00
9999	Sundries (For Fabrication)	L.S.	1895.30	2.00	3790.60
9999	Sundries (For Installation)	L.S.	1895.30	2.00	3790.60
9999	Sundries (Transporation)	L.S.	602.25	2.00	1204.50
9999	Sundries (Scaffolding / Loading / Unloading)	L.S.	473.83	2.00	947.66
9999	Sundries (Designing charges etc.)	L.S.	328.15	2.00	656.30
TOTAL					21646.66 W
Add 1 % Water charges on "W"					216.47
TOTAL					21863.13 X
Add GST (multiplying factor 0.1405) on "X"					3071.77
TOTAL					24934.90 Y
Add 15 % Contractor's profit and overheads on "Y"					3740.23
Total					28675.13 Z
Add Cess @ 1% on "Z"					286.75
Cost for 6.72 sqm					28961.88
Cost for 1 sqm					4309.80
Say					4309.80

SUB HEAD : 9.0

WOOD AND P. V. C. WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
9.1.1	Second class teak wood				
	Details of cost for Chowkhat of a door				
	206.75x117.5cm				
	MATERIAL				
	Superior class teakwood such as Dandeli				
	Balارشah or Malabar				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
1189	Second class teak wood in scantling	10 cudm	3.800	776.00	2948.80
2204	Carriage of Timber	cum	0.038	121.29	4.61
	LABOUR				
0041	Carpenter (average)	day	0.720	374.50	269.64
0017	Beldar	day	0.070	320.83	22.46
	TOTAL				3245.51 W
	Add 1 % Water charges on "W"				32.46
	TOTAL				3277.96 X
	Add GST (multiplying factor 0.1405) on "X"				460.55
	TOTAL				3738.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				560.78
	Total				4299.29 Z
	Add Cess @ 1% on "Z"				42.99
	Cost of 36 cudm.				4342.29
	Cost per cum.				120619.06
	Say				120619.05
9.1.2	Sal wood				
	Details of cost for Chowkhat of a door				
	206.75x117.5cm.				
	MATERIAL				
	Salwood				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1199	Sal wood in scantling	10 cudm	3.800	600.00	2280.00
2204	Carriage of Timber LABOUR	cum	0.038	121.29	4.61
0041	Carpenter (average)	day	0.720	374.50	269.64
0017	Beldar	day	0.070	320.83	22.46
	TOTAL				2576.71 W
	Add 1 % Water charges on "W"				25.77
	TOTAL				2602.47 X
	Add GST (multiplying factor 0.1405) on "X"				365.65
	TOTAL				2968.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				445.22
	Total				3413.34 Z
	Add Cess @ 1% on "Z"				34.13
	Cost of 36 cudm.				3447.47
	Cost per cum.				95763.06
	Say				95763.05

9.1.3 Kiln seasoned and chemically treated hollock wood

Details of cost for Chowkhat of a door
206.75x117.5cm.

MATERIAL

Hollock wood

2x206.75x9.5x7.0cm = 0.028cum+
1x117.5x9.5x7.0cm = 0.008cum.
= 0.036cum.+

Add for wastage @ 5% = 0.002cum.

Grand Total = 0.038cum = 38cudm

2466	Hollock wood in scantling	10 cudm	3.800	350.00	1330.00
2204	Carriage of Timber	cum	0.038	121.29	4.61
2504	Kiln seasoning of timber	cum	0.038	750.00	28.50
9999	Chemical treatment	L.S.	8.970	2.00	17.94
	LABOUR				
0041	Carpenter (average)	day	0.720	374.50	269.64
0017	Beldar	day	0.070	320.83	22.46
	TOTAL				1673.15 W
	Add 1 % Water charges on "W"				16.73
	TOTAL				1689.88 X
	Add GST (multiplying factor 0.1405) on "X"				237.43
	TOTAL				1927.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				289.10
	Total				2216.40 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				22.16
	Cost of 36 cum.				2238.57
	Cost per cum.				62182.41
	Say				62182.40
9.2	Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001 (Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	Details of cost for Chowkhat of a door				
	206.75x117.5cm.				
	MATERIAL				
	Laminated veneer lumber including wastage @ 5%				
	2x206.75x9.5x7.0cm = 0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38cum				
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cum	3.800	700.00	2660.00
2204	Carriage of Timber	cum	0.038	121.29	4.61
	LABOUR				
0014	Carpenter 1st class	day	0.200	476.00	95.20
0015	Carpenter 2nd class	day	0.200	374.50	74.90
0017	Beldar	day	0.200	320.83	64.17
	TOTAL				2898.88 W
	Add 1 % Water charges on "W"				28.99
	TOTAL				2927.86 X
	Add GST (multiplying factor 0.1405) on "X"				411.36
	TOTAL				3339.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				500.88
	Total				3840.11 Z
	Add Cess @ 1% on "Z"				38.40
	Cost of 36 cum.				3878.51
	Cost per cum.				107736.39
	Say				107736.40
9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position :				
9.3.1	Sal wood				
	Details of cost for ceiling for a room 3x3m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Salwood				
	= $6 \times 3.30 \times (50/1000) \times (125/1000) =$				
	0.1238 cum. +				
	Cross battens 60mm centre to center 38x50mm.				
	$6 \times 3 \times (38/1000) \times 50/1000 = 0.0342$ cum.				
	= 0.1580 cum.+				
	Add for wastage @ 5% = 0.0079 cum.				
	= 0.1659 cum. say 166 cudm.				
1199	Sal wood in scantling	10 cudm	16.600	600.00	9960.00
2204	Carriage of Timber	cum	0.166	121.29	20.13
	LABOUR				
0015	Carpenter 2nd class	day	1.000	374.50	374.50
0017	Beldar	day	1.000	320.83	320.83
9999	Sundries screws etc.	L.S.	53.820	2.00	107.64
	TOTAL				10783.10 W
	Add 1 % Water charges on "W"				107.83
	TOTAL				10890.94 X
	Add GST (multiplying factor 0.1405) on "X"				1530.18
	TOTAL				12421.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				1863.17
	Total				14284.28 Z
	Add Cess @ 1% on "Z"				142.84
					14427.12
	Cost of 158 cudm.				
	Cost per cum.				91310.89
	Say				91310.90

9.3.2 Kiln seasoned and chemically treated hollock wood

Details of cost for ceiling for a room 3x3m

MATERIAL

Hollock wood

= $6 \times 3.30 \times (50/1000) \times (125/1000) =$

0.1238 cum. +

Cross battens 60mm centre to center 38x50mm.

$6 \times 3 \times (38/1000) \times 50/1000 = 0.0342$ cum.

= 0.1580 cum.+

Add for wastage @ 5% = 0.0079 cum.

= 0.1659 cum. say 166 cudm.

2466	Hollock wood in scantling	10 cudm	16.600	350.00	5810.00
2204	Carriage of Timber	cum	0.166	121.29	20.13
2504	Kiln seasoning of timber	cum	0.166	750.00	124.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Chemical treatment	L.S.	18.200	2.00	36.40
	LABOUR				
0015	Carpenter 2nd class	day	1.000	374.50	374.50
0017	Beldar	day	1.000	320.83	320.83
9999	Sundries screws etc.	L.S.	53.820	2.00	107.64
	TOTAL				6794.00 W
	Add 1 % Water charges on "W"				67.94
	TOTAL				6861.94 X
	Add GST (multiplying factor 0.1405) on "X"				964.10
	TOTAL				7826.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				1173.91
	Total				8999.95 Z
	Add Cess @ 1% on "Z"				90.00
					9089.95
	Cost of 158 cu dm.				57531.33
	Cost per cum.				57531.35
	Say				

9.4 Extra for additional labour for circular works, such as in frames of fan light

9.4.1 Second class teak wood

Details of cost for Chowkhat of a door

206.75x117.5cm

Extra Materials and labour for wastage @

10% on quantity of item no 9.1.1

MATERIAL

1189	Second class teak wood in scantling	10 cu dm	0.38000	776.00	294.88
2204	Carriage of Timber	cum	0.00380	121.29	0.46
	LABOUR				
0041	Carpenter (average)	day	0.07200	374.50	26.96
0017	Beldar	day	0.00700	320.83	2.25
	TOTAL				324.55 W
	Add 1 % Water charges on "W"				3.25
	TOTAL				327.80 X
	Add GST (multiplying factor 0.1405) on "X"				46.06
	TOTAL				373.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.08
	Total				429.93 Z
	Add Cess @ 1% on "Z"				4.30
					434.23
	Cost of 36 cu dm.				12061.94
	Cost per cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				12061.95
9.4.2	Sal wood				
	Details of cost for Chowkhat of a door				
	206.75x117.5cm				
	Extra Materials and labour for wastage @				
	10% on quantity of item no 9.1.2				
	MATERIAL				
1199	Sal wood in scantling	10 cudm	0.38000	600.00	228.00
2204	Carriage of Timber	cum	0.00380	121.29	0.46
	LABOUR				
0041	Carpenter (average)	day	0.07200	374.50	26.96
0017	Beldar	day	0.00700	320.83	2.25
	TOTAL				257.67 W
	Add 1 % Water charges on "W"				2.58
	TOTAL				260.25 X
	Add GST (multiplying factor 0.1405) on "X"				36.56
	TOTAL				296.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				44.52
	Total				341.33 Z
	Add Cess @ 1% on "Z"				3.41
	Cost of 36 cudm.				344.75
	Cost per cum.				9576.39
	Say				9576.40
9.4.3	Kiln seasoned and chemically treated hollock wood				
	Details of cost for Chowkhat of a door				
	206.75x117.5cm.				
	Extra Materials and labour for wastage @				
	10% on quantity of item no 9.1.3				
	MATERIAL				
2466	Hollock wood in scantling	10 cudm	0.38000	350.00	133.00
2204	Carriage of Timber	cum	0.00380	121.29	0.46
2504	Kiln seasoning of timber	cum	0.00380	750.00	2.85
9999	Chemical treatment	L.S.	0.90000	2.00	1.80
	LABOUR				
0041	Carpenter (average)	day	0.07200	374.50	26.96
0017	Beldar	day	0.0070	320.83	2.25
	TOTAL				167.32 W
	Add 1 % Water charges on "W"				1.67
	TOTAL				168.99 X
	Add GST (multiplying factor 0.1405) on "X"				23.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				192.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.91
	Total				221.65 Z
	Add Cess @ 1% on "Z"				2.22
	Cost of 36 cum.				223.86
	Cost per cum.				6218.33
	Say				6218.35
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)				
9.5.1	Second class teak wood				
9.5.1.1	35 mm thick shutters				
	Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x 108cm = 2.16 sqm)				
	MATERIAL				
	Teak wood				
	Styles 4x200x10.0x3.5cm = 0.028cum+ Rails				
	Top rails 1x110.5x10.0x3.5cm = 0.004cum.+				
	Bottom rails 1x110.5x20x3.5cm = 0.008cum+				
	Lock rails 1x110.5x15x3.5cm = 0.006cum+				
	Beading 2x186.1x1.9x1.2cm = 0.001cum.				
	Total = 0.047 cum+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cum				
1190	Second class teak wood in planks	10 cum	5.1000	791.00	4034.10
2204	Carriage of Timber	cum	0.0510	121.29	6.19
	LABOUR				
0041	Carpenter (average)	day	1.8300	374.50	685.34
0017	Beldar	day	0.7600	320.83	243.83
9999	Sundries	L.S.	35.8800	2.00	71.76
	TOTAL				5041.21 W
	Add 1 % Water charges on "W"				50.41
	TOTAL				5091.62 X
	Add GST (multiplying factor 0.1405) on "X"				715.37
	TOTAL				5807.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				871.05
	Total				6678.05 Z
	Add Cess @ 1% on "Z"				66.78
	Cost of 2.16 sqm.				6744.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				3122.61
	Say				3122.60
9.5.1.2	30 mm thick shutters				
	Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x 108cm = 2.16 sqm)				
	MATERIAL				
	Teak wood				
	Styles : 4x200x10.0x3.0cm = 0.024 cum+				
	Top rails : 1x110.5x9.5x3.0cm = 0.003cum+				
	Bottom rails : 1x110.5x19.7x3.0cm = 0.007cum+				
	Lock rails : 1x110.5x15.0x3.0cm = 0.005cum+				
	Beading : 2x186.1x1.9x1.2cm = 0.001 cum.				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	Grand Total = 0.044 cum = 44 cudm				
1190	Second class teak wood in planks	10 cudm	4.400	791.00	3480.40
2204	Carriage of Timber	cum	0.044	121.29	5.34
	LABOUR				
0041	Carpenter (average)	day	1.830	374.50	685.34
0017	Beldar	day	0.760	320.83	243.83
9999	Sundries	L.S.	35.880	2.00	71.76
	TOTAL				4486.66 W
	Add 1 % Water charges on "W"				44.87
	TOTAL				4531.53 X
	Add GST (multiplying factor 0.1405) on "X"				636.68
	TOTAL				5168.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				775.23
	Total				5943.44 Z
	Add Cess @ 1% on "Z"				59.43
	Cost of 2.16 sqm.				6002.87
	Cost of 1 sqm.				2779.11
	Say				2779.10
9.5.2	Kiln seasoned and chemically treated hollock wood				
9.5.2.1	35 mm thick shutters				
	Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x 108cm = 2.16 sqm)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Hollock wood				
	Styles 4x200x10.0x3.5cm = 0.028cum+ Rails				
	Top rails 1x110.5x10.0x3.5cm = 0.004cum.+				
	Bottom rails 1x110.5x20x3.5cm = 0.008cum+				
	Lock rails 1x110.5x15x3.5cm = 0.006cum+				
	Beading 2x186.1x1.9x1.2cm = 0.001cum.				
	Total = 0.047 cum+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cudm				
2505	Hollock wood in planks	10 cudm	5.1000	390.00	1989.00
2204	Carriage of Timber	cum	0.0510	121.29	6.19
2504	Kiln seasoning of timber	cum	0.0510	750.00	38.25
9999	Chemical treatment	L.S.	9.1000	2.00	18.20
	LABOUR				
0041	Carpenter (average)	day	1.8300	374.50	685.34
0017	Beldar	day	0.7600	320.83	243.83
9999	Sundries	L.S.	35.8800	2.00	71.76
	TOTAL				3052.56 W
	Add 1 % Water charges on "W"				30.53
	TOTAL				3083.09 X
	Add GST (multiplying factor 0.1405) on "X"				433.17
	TOTAL				3516.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				527.44
	Total				4043.70 Z
	Add Cess @ 1% on "Z"				40.44
	Cost of 2.16 sqm.				4084.14
	Cost of 1 sqm.				1890.80
	Say				1890.80

9.5.2.2 30 mm thick shutters

Details of cost for shutters of a door
 (1/3rd glazed and 2/3rd panelled) 200x108cm =
 2.16sqm.
 MATERIAL
 Hollock wood
 Styles 4x200x10.0x3.0cm = 0.024cum+
 Rails
 Top rails 1x110.5x9.50x3.0cm =
 0.003cum.+
 Lock rails 1x110.5x15x3.0cm =

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.005cum+ Bottom rails 1x110.5x19.7x3.0cm = 0.007cum+ Beading 2x186.1x1.9x1.2cm = 0.001cum Total = 0.040 cum.+ Add for wastage @ 10% = 0.004cum Grand Total = 0.044 cum or = 44 cudm				
2505	Hollock wood in planks	10 cudm	4.4000	390.00	1716.00
2204	Carriage of Timber	cum	0.0440	121.29	5.34
2504	Kiln seasoning of timber	cum	0.0440	750.00	33.00
9999	Chemical treatment	L.S.	9.1000	2.00	18.20
	LABOUR				
0041	Carpenter (average)	day	1.8300	374.50	685.34
0017	Beldar	day	0.7600	320.83	243.83
9999	Sundries	L.S.	35.8800	2.00	71.76
	TOTAL				2773.46 W
	Add 1 % Water charges on "W"				27.73
	TOTAL				2801.20 X
	Add GST (multiplying factor 0.1405) on "X"				393.57
	TOTAL				3194.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				479.21
	Total				3673.98 Z
	Add Cess @ 1% on "Z"				36.74
	Cost of 2.16 sqm.				3710.72
	Cost of 1 sqm.				1717.93
	Say				1717.95

9.5.3 Kiln seasoned selected planks of sheesham wood

9.5.3.1 35 mm thick shutters

Details of cost for shutters of a Door

(1/3rd glazed and 2/3rd panelled)

200x108cm = 2.16 sqm)

MATERIAL

Sheesham wood

Styles 4x200x10.0x3.5cm = 0.028cum+ Rails

Top rails 1x110.5x10.0x3.5cm = 0.004cum.+

Lock rails 1x110.5x15x3.5cm = 0.006cum+

Beading 2x186.1x1.9x1.2cm = 0.001cum.

Total = 0.047 cum+

Add for wastage @ 10% = 0.005cum

Grand Total = 0.051 cum or = 51 cudm

1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.1000	650.00	3315.00
2204	Carriage of Timber	cum	0.0510	121.29	6.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2504	Kiln seasoning of timber	cum	0.0510	750.00	38.25
	LABOUR				
0041	Carpenter (average)	day	1.8300	374.50	685.34
0017	Beldar	day	0.7600	320.83	243.83
9999	Sundries	L.S.	35.8800	2.00	71.76
	TOTAL				4360.36 W
	Add 1 % Water charges on "W"				43.60
	TOTAL				4403.97 X
	Add GST (multiplying factor 0.1405) on "X"				618.76
	TOTAL				5022.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				753.41
	Total				5776.13 Z
	Add Cess @ 1% on "Z"				57.76
	Cost of 2.16 sqm.				5833.89
	Cost of 1 sqm.				2700.88
	Say				2700.90

9.5.3.2 30 mm thick shutters

Details of cost for shutters of a door

(1/3rd glazed and 2/3rd panelled) 200x108cm =
2.16sqm.

MATERIAL

Sheesham wood

Styles 4x200x10.0x3.0cm = 0.028cum+ Rails

Top rails 1x110.5x9.50x3.0cm =
0.003cum.+

Lock rails 1x110.5x15.0x3.0cm =
0.005cum+

Bottom rails 1x110.5x19.7x3.0cm =
0.007cum+

Beading 2x186.1x1.9x1.2cm = 0.001cum

Total = 0.040 cum.+

Add for wastage @ 10% = 0.004cum

Grand Total = 0.044 cum or = 44 cudm"

1200	Kiln seasoned selected sheesum wood planks	10 cudm	4.400	650.00	2860.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
	LABOUR				
0041	Carpenter (average)	day	1.830	374.50	685.34
0017	Beldar	day	0.760	320.83	243.83
9999	Sundries	L.S.	35.880	2.00	71.76
	TOTAL				3899.26 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				38.99
	TOTAL				3938.26 X
	Add GST (multiplying factor 0.1405) on "X"				553.32
	TOTAL				4491.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				673.74
	Total				5165.32 Z
	Add Cess @ 1% on "Z"				51.65
	Cost of 2.16 sqm.				5216.97
	Cost of 1 sqm.				2415.26
	Say				2415.25
9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately)				
9.6.1	12 mm thick plain grade -1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT- I, IS : 3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :				
	Details of cost of one shutter 220x108cm =				
	2.38sqm. MATERIAL				
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.380	1620.00	3855.60
9977	Carriage of shutters Fittings :	L.S.	29.640	2.00	59.28
	LABOUR				
0041	Carpenter (average)	day	0.520	374.50	194.74
0017	Beldar	day	0.600	320.83	192.50
9999	Sundries	L.S.	35.880	2.00	71.76
	TOTAL				4373.88 W
	Add 1 % Water charges on "W"				43.74
	TOTAL				4417.62 X
	Add GST (multiplying factor 0.1405) on "X"				620.68
	TOTAL				5038.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				755.74
	Total				5794.04 Z
	Add Cess @ 1% on "Z"				57.94
	Cost of 2.38 sqm.				5851.98
	Cost of 1 sqm.				2458.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				2458.80
9.6.2	12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked : Details of cost of one shutter 220x108cm = 2.38sqm. MATERIAL				
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick both sides pre-laminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	2.38	1720.00	4093.60
9977	Carriage of shutters Fittings : LABOUR	L.S.	29.64	2.00	59.28
0041	Carpenter (average)	day	0.52	374.50	194.74
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				4611.88 W
	Add 1 % Water charges on "W"				46.12
	TOTAL				4658.00 X
	Add GST (multiplying factor 0.1405) on "X"				654.45
	TOTAL				5312.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				796.87
	Total				6109.31 Z
	Add Cess @ 1% on "Z"				61.09
	Cost of 2.38 sqm.				6170.41
	Cost of 1 sqm.				2592.61
	Say				2592.60

9.6.3 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :

Details of cost of one shutter 220x108cm = 2.38sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087-1985 bonded with BWP type synthetic resin adhesive, as per IS:848-1974	sqm	2.38	1910.00	4545.80
9977	Carriage of shutters Fittings : LABOUR	L.S.	29.64	2.00	59.28
0041	Carpenter (average)	day	0.52	374.50	194.74
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				5064.08 W
	Add 1 % Water charges on "W"				50.64
	TOTAL				5114.72 X
	Add GST (multiplying factor 0.1405) on "X"				718.62
	TOTAL				5833.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				875.00
	Total				6708.34 Z
	Add Cess @ 1% on "Z"				67.08
	Cost of 2.38 sqm.				6775.42
	Cost of 1 sqm.				2846.82
	Say				2846.80
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
9.7.1	Second class teak wood				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66 sqm				
	MATERIAL				
	Panels				
	4x47.2x38.65x1.6cm = 0.0117cum+ Add for wastage @ 10% = 0.0012cum. = 0.0129 cum.				
1190	Second class teak wood in planks	10 cudm	1.2900	791.00	1020.39
2204	Carriage of Timber LABOUR	cum	0.0129	121.29	1.56

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	0.5700	476.00	271.32
9999	Sundries	L.S.	4.4200	2.00	8.84
	TOTAL				1302.11 W
	Add 1 % Water charges on "W"				13.02
	TOTAL				1315.14 X
	Add GST (multiplying factor 0.1405) on "X"				184.78
	TOTAL				1499.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				224.99
	Total				1724.90 Z
	Add Cess @ 1% on "Z"				17.25
	Cost of 0.66 sqm.				1742.15
	Cost of 1 sqm.				2639.62
	Say				2639.60

9.7.2 Kiln seasoned and chemically treated hollock wood

Details of cost for shutters of a door 200x108cm =
2.16 sqm.
Panel area 4x45.1x36.55cm=0.66sqm.

MATERIAL

Hollock wood panels 4x45.1x36.55cm = 0.0117
cum+ Add for wastage @ 10% = 0.0012cum. =
0.0129 cum = 12.90 cudm

2505	Hollock wood in planks	10 cudm	1.2900	390.00	503.10
2204	Carriage of Timber	cum	0.0129	121.29	1.56
2504	Kiln seasoning of timber	cum	0.0129	750.00	9.68
9999	Chemical treatment Labour & sundries	L.S.	8.9700	2.00	17.94
0014	Carpenter 1st class	day	0.5700	476.00	271.32
9999	Sundries	L.S.	4.4200	2.00	8.84
	TOTAL				812.44 W
	Add 1 % Water charges on "W"				8.12
	TOTAL				820.56 X
	Add GST (multiplying factor 0.1405) on "X"				115.29
	TOTAL				935.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				140.38
	Total				1076.23 Z
	Add Cess @ 1% on "Z"				10.76
	Cost of 0.66 sqm.				1086.99
	Cost of 1 sqm.				1646.96
	Say				1646.95

9.7.3 Ply wood 5 ply, 9 mm thick

9.7.3.1 Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type

Details of cost for shutters of a door with 2/3rd
panelling 200x108cm = 2.16sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Panel area = 4x45.1x36.55cm = 0.66sqm. MATERIAL Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	0.800	850.00	680.00
9977	Carriage of Plywood	L.S.	1.820	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.570	476.00	271.32
9999	Sundries	L.S.	4.420	2.00	8.84
	TOTAL				963.80 W
	Add 1 % Water charges on "W"				9.64
	TOTAL				973.44 X
	Add GST (multiplying factor 0.1405) on "X"				136.77
	TOTAL				1110.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.53
	Total				1276.74 Z
	Add Cess @ 1% on "Z"				12.77
	Cost of 0.66 sqm.				1289.50
	Cost of 1 sqm.				1953.79
	Say				1953.80
9.7.3.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type				
	Details of cost for shutters of a door with 2/3rd panelling. 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66sqm. MATERIAL Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.800	870.00	696.00
9977	Carriage of Plywood	L.S.	1.820	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.570	476.00	271.32
9999	Sundries	L.S.	4.420	2.00	8.84
	TOTAL				979.80 W
	Add 1 % Water charges on "W"				9.80
	TOTAL				989.60 X
	Add GST (multiplying factor 0.1405) on "X"				139.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1128.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				169.30
	Total				1297.93 Z
	Add Cess @ 1% on "Z"				12.98
	Cost of 0.66 sqm.				1310.91
	Cost of 1 sqm.				1986.23
	Say				1986.25
9.7.4	Ply wood 7 ply, 9 mm thick				
9.7.4.1	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.800	950.00	760.00
9977	Carriage of Plywood	L.S.	1.820	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.570	476.00	271.32
9999	Sundries	L.S.	4.420	2.00	8.84
	TOTAL				1043.80 W
	Add 1 % Water charges on "W"				10.44
	TOTAL				1054.24 X
	Add GST (multiplying factor 0.1405) on "X"				148.12
	TOTAL				1202.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				180.35
	Total				1382.71 Z
	Add Cess @ 1% on "Z"				13.83
	Cost of 0.66 sqm.				1396.54
	Cost of 1 sqm.				2115.97
	Say				2115.95
9.7.5	Particle Board 12 mm thick				
9.7.5.1	Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Particle Board				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
341	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	0.80	288.00	230.40
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				514.20 W
	Add 1 % Water charges on "W"				5.14
	TOTAL				519.34 X
	Add GST (multiplying factor 0.1405) on "X"				72.97
	TOTAL				592.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				88.85
	Total				681.16 Z
	Add Cess @ 1% on "Z"				6.81
	Cost of 0.66 sqm.				687.97
	Cost of 1 sqm.				1042.38
	Say				1042.40
9.7.5.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade I				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Particle Board				
	4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm				
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	0.80	500.00	400.00
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				683.80 W
	Add 1 % Water charges on "W"				6.84
	TOTAL				690.64 X
	Add GST (multiplying factor 0.1405) on "X"				97.03
	TOTAL				787.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.15
	Total				905.82 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				9.06
	Cost of 0.66 sqm.				914.88
	Cost of 1 sqm.				1386.18
	Say				1386.20
9.7.5.3	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Particle Board				
	4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	540.00	432.00
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				715.80 W
	Add 1 % Water charges on "W"				7.16
	TOTAL				722.96 X
	Add GST (multiplying factor 0.1405) on "X"				101.58
	TOTAL				824.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				123.68
	Total				948.21 Z
	Add Cess @ 1% on "Z"				9.48
	Cost of 0.66 sqm.				957.70
	Cost of 1 sqm.				1451.05
	Say				1451.05
9.7.5.4	Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS:12823 marked				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Particle Board				
	4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	575.00	460.00
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				743.80 W
	Add 1 % Water charges on "W"				7.44
	TOTAL				751.24 X
	Add GST (multiplying factor 0.1405) on "X"				105.55
	TOTAL				856.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				128.52
	Total				985.30 Z
	Add Cess @ 1% on "Z"				9.85
	Cost of 0.66 sqm.				995.16
	Cost of 1 sqm.				1507.82
	Say				1507.80
9.7.6	Coir Veneer Board (conforming to IS 14842)				
9.7.6.1	12 mm thick				
	Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm				
	Panel area 4x45.1x36.55cm=0.66sqm				
	MATERIAL				
	Coir veneered board 12mm thick				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7555	Coir veneered board 12mm thick	sqm	0.80	670.00	536.00
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				819.80 W
	Add 1 % Water charges on "W"				8.20
	TOTAL				828.00 X
	Add GST (multiplying factor 0.1405) on "X"				116.33
	TOTAL				944.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				141.65
	Total				1085.98 Z
	Add Cess @ 1% on "Z"				10.86
	Cost of 0.66 sqm.				1096.84

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				1661.88
	Say				1661.90
9.7.7	Float glass panes				
9.7.7.1	4 mm thick glass pane				
	Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm MATERIAL				
	Float glass sheet of nominal thickness 4 mm 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	0.80	300.00	240.00
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64
0041	Carpenter (average)	day	0.57	374.50	213.47
0021	Glazier	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	25.47	2.00	50.94
	TOTAL				612.34 W
	Add 1 % Water charges on "W"				6.12
	TOTAL				618.47 X
	Add GST (multiplying factor 0.1405) on "X"				86.89
	TOTAL				705.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				105.80
	Total				811.17 Z
	Add Cess @ 1% on "Z"				8.11
	Cost of 0.66 sqm.				819.28
	Cost of 1 sqm.				1241.33
	Say				1241.35
9.7.7.2	5.5 mm thick glass panes				
	Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66 sqm MATERIAL				
	Float glass sheet of nominal thickness 5.5 mm 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	0.80	500.00	400.00
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0041	Carpenter (average)	day	0.57	374.50	213.47
0021	Glazier	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	25.47	2.00	50.94
	TOTAL				772.34 W
	Add 1 % Water charges on "W"				7.72
	TOTAL				780.07 X
	Add GST (multiplying factor 0.1405) on "X"				109.60
	TOTAL				889.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				133.45
	Total				1023.12 Z
	Add Cess @ 1% on "Z"				10.23
	Cost of 0.66 sqm.				1033.35
	Cost of 1 sqm.				1565.68
	Say				1565.70

9.7.8 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading

Details of cost for shutters of a door with
2/3 rd panelling 200x108cm = 2.16 sqm
Panel area 4x45.1x36.55cm=0.66sqm
MATERIAL

Stainless steel wire guage
4x47.2x38.65cm = 0.73sqm
Add for wastage @ 10% = 0.07sqm
Total = 0.80 sqm

8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	0.80	400.00	320.00
9977	CARRIAGE	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.57	374.50	213.47
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				545.95 W
	Add 1 % Water charges on "W"				5.46
	TOTAL				551.40 X
	Add GST (multiplying factor 0.1405) on "X"				77.47
	TOTAL				628.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				94.33
	Total				723.21 Z
	Add Cess @ 1% on "Z"				7.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 0.66 sqm.				730.44
	Cost of 1 sqm.				1106.73
	Say				1106.75
9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.				
9.9.1	Second class teak wood				
9.9.1.1	35 mm thick				
	Details of cost for shutter of a door (glazed)				
	2000x108cm = 2.16 sqm. MATERIAL				
	Teak wood (2nd class)				
	Styles : 4x200x9.5x3.5cm = 0.027cum				
	Rails				
	Top & intermediate rails				
	2x110.5x9.5x3.5cm = 0.008cum				
	Lock and bottom rails				
	2x110.5x19.7x3.5cm = 0.015cum				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum				
	4x171.70x1.9x1.2cm = 0.002cum.				
	Total = 0.053 cum.				
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.058 cum = 58 cudm				
1190	Second class teak wood in planks	10 cudm	5.800	791.00	4587.80
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.058	121.29	7.03
	LABOUR				0.00
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				6164.20 W
	Add 1 % Water charges on "W"				61.64
	TOTAL				6225.85 X
	Add GST (multiplying factor 0.1405) on "X"				874.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				7100.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				1065.09
	Total				8165.66 Z
	Add Cess @ 1% on "Z"				81.66
	Cost of 2.16 sqm.				8247.32
	Cost of 1 sqm.				3818.20
	Say				3818.20
9.9.1.2	30 mm thick				
	Details of cost for shutter of a door (glazed)				
	2000x108cm = 2.16 sqm.				
	MATERIAL				
	Teak wood				
	Styles : 4x200x9.5x3.0cm = 0.023cum+				
	Rails				
	Top & intermediate rails				
	2x110.5x9.5x3.0cm = 0.006cum+				
	Lock and bottom rails				
	2x110.5x19.7x3.0cm = 0.013cum+				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum+				
	4x171.70x1.9x1.2cm = 0.002cum.				
	Total = 0.045 cum.+				
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.050 cum = 50 cudm				
1190	Second class teak wood in planks	10 cudm	5.000	791.00	3955.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.05	121.29	6.06
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5530.43 W
	Add 1 % Water charges on "W"				55.30
	TOTAL				5585.74 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				784.80
	TOTAL				6370.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				955.58
	Total				7326.11 Z
	Add Cess @ 1% on "Z"				73.26
	Cost of 2.16 sqm.				7399.38
	Cost of 1 sqm.				3425.64
	Say				3425.65

9.9.2 Kiln seasoned and chemically treated hollock wood

9.9.2.1 35 mm thick

Details of cost for shutters of a door (glazed)

200x108cm = 2.16 sqm.

MATERIAL

Hollock wood Styles :

4x200x9.5x3.5cm = 0.027cum+

Rails

Top & intermediate rails

2x110.5x9.5x3.5cm = 0.008cum+

Lock and bottom rails

2x110.5x19.7x3.5cm = 0.015cum.+

Beadings-

2x186.1x1.9x1.2cm = 0.001cum+

4x171.70x1.9x1.2cm = 0.002cum.

Total = 0.053 cum.+

Add for wastage @ 10% = 0.005cum.

Grand Total = 0.058 cum or = 58 cudm

2505	Hollock wood in planks	10 cudm	5.800	390.00	2262.00
2504	Kiln seasoning of timber	cum	0.0580	750.00	43.50
9999	(iii) Chemical treatment	L.S.	9.10	2.00	18.20
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.058	121.29	7.03
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				3900.10 W
	Add 1 % Water charges on "W"				39.00
	TOTAL				3939.11 X
	Add GST (multiplying factor 0.1405) on "X"				553.44
	TOTAL				4492.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				673.88
	Total				5166.43 Z
	Add Cess @ 1% on "Z"				51.66
	Cost of 2.16 sqm.				5218.10
	Cost of 1 sqm.				2415.79
	Say				2415.80

9.9.2.2 30 mm thick

Details of cost for shutter of door (glazed)
2000x108cm = 2.16 sqm.
MATERIAL
Hollock wood
Styles : 4x200x9.5x3.0cm = 0.023cum+
Rails
Top & intermediate rails
2x110.5x19.7x3.0cm = 0.006cum+
Lock and bottom rails
2x110.5x19.7x3.0cm = 0.013cum+
Beadings-
2x186.1x1.9x1.2cm = 0.001cum+
4x171.70x1.9x1.2cm = 0.002cum.
Total = 0.045 cum.+
Add for wastage @ 10% = 0.005cum. Grand Total
= 0.050 = 50 cudm

2505	Hollock wood in planks	10 cudm	5.00	390.00	1950.00
2504	Kiln seasoning of timber	cum	0.05	750.00	37.50
9999	Chemical treatment	L.S.	9.10	2.00	18.20
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.05	121.29	6.06
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				3581.13 W
	Add 1 % Water charges on "W"				35.81
	TOTAL				3616.95 X
	Add GST (multiplying factor 0.1405) on "X"				508.18
	TOTAL				4125.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				618.77
	Total				4743.89 Z
	Add Cess @ 1% on "Z"				47.44
	Cost of 2.16 sqm.				4791.33
	Cost of 1 sqm.				2218.21
	Say				2218.20

9.9.3 Kiln seasoned selected planks of sheesham wood

9.9.3.1 35 mm thick

Details of cost for shutters of a door (glazed)

200x108cm = 2.16 sqm.

MATERIAL Sheesham wood

Styles :

4x200x9.5x3.5cm = 0.027cum+

Rails

Top & intermediate rails

2x110.5x9.5x3.5cm = 0.008cum+

Lock and bottom rails

2x110.5x19.7x3.5cm = 0.015cum.+

Beadings-

2x186.1x1.9x1.2cm = 0.001cum+

4x171.70x1.9x1.2cm = 0.002cum.

Total = 0.053 cum.+

Add for wastage @ 10% = 0.005cum.

Grand Total = 0.058 cum or = 58 cudm

1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.800	650.00	3770.00
2504	Kiln seasoning of timber	cum	0.058	750.00	43.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of Timber	cum	0.058	121.29	7.03
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5389.90 W
	Add 1 % Water charges on "W"				53.90
	TOTAL				5443.80 X
	Add GST (multiplying factor 0.1405) on "X"				764.85
	TOTAL				6208.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				931.30
	Total				7139.96 Z
	Add Cess @ 1% on "Z"				71.40
	Cost of 2.16 sqm.				7211.36
	Cost of 1 sqm.				3338.59
	Say				3338.60

9.9.3.2 30 mm thick

Details of cost for shutter of door (glazed)
2000x108cm = 2.16 sqm.
MATERIAL
Sheesham wood
Styles : 4x200x9.5x3.0cm = 0.023cum+
Rails
Top & intermediate rails
2x110.5x19.7x3.0cm = 0.006cum+
Lock and bottom rails
2x110.5x19.7x3.0cm = 0.013cum+
Beadings-
2x186.1x1.9x1.2cm = 0.001cum+
4x171.70x1.9x1.2cm = 0.002cum.
Total = 0.045 cum.+
Add for wastage @ 10% = 0.005cum. Grand Total
= 0.050 = 50 cudm

1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.00	650.00	3250.00
2504	Kiln seasoning of timber	cum	0.05	750.00	37.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.05	121.29	6.06
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				4862.93 W
	Add 1 % Water charges on "W"				48.63
	TOTAL				4911.56 X
	Add GST (multiplying factor 0.1405) on "X"				690.07
	TOTAL				5601.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				840.25
	Total				6441.88 Z
	Add Cess @ 1% on "Z"				64.42
	Cost of 2.16 sqm.				6506.30
	Cost of 1 sqm.				3012.18
	Say				3012.20
9.10	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)				
9.10.1	30 mm thick shutters				
	Details of cost of one shutter 220x108cm = 2.38sqm.				
	MATERIAL				
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	2.38	1620.00	3855.60
9977	Carriage of shutters Fittings :	L.S.	29.64	2.00	59.28
	LABOUR				
0041	Carpenter (average)	day	0.52	374.50	194.74
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				4373.88 W
	Add 1 % Water charges on "W"				43.74
	TOTAL				4417.62 X
	Add GST (multiplying factor 0.1405) on "X"				620.68
	TOTAL				5038.29 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				755.74
	Total				5794.04 Z
	Add Cess @ 1% on "Z"				57.94
	Cost of 2.38 sqm.				5851.98
	Cost of 1 sqm.				2458.81
	Say				2458.80
9.11	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)				
9.11.1	5.5 mm thick instead of 4 mm thick.				
	Details of cost for one sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm). Deduct	sqm	1.00	500.00	500.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Total	sqm	-1.00	300.00	-300.00
					200.00 W
	Add 1 % Water charges on "W"				2.00
	TOTAL				202.00 X
	Add GST (multiplying factor 0.1405) on "X"				28.38
	TOTAL				230.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.56
	Total				264.94 Z
	Add Cess @ 1% on "Z"				2.65
	Cost of 1 sqm.				267.59
	Say				267.60
9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).				
	Cost for 1 sqm.				
	MATERIAL				
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm) Deduct	sqm	1.00	460.00	460.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). TOTAL	sqm	-1.00	300.00	-300.00
					160.00 W
	Add 1 % Water charges on "W"				1.60
	TOTAL				161.60 X
	Add GST (multiplying factor 0.1405) on "X"				22.70
	TOTAL				184.30 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				27.65
	Total				211.95 Z
	Add Cess @ 1% on "Z"				2.12
	Cost of 1 sqm.				214.07
	Say				214.05
9.13	Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).				
	Cost for 1 sqm.				
	MATERIAL				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Deduct	sqm	-1.00	300.00	-300.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	1.00	305.00	305.00
	TOTAL				5.00 W
	Add 1 % Water charges on "W"				0.05
	TOTAL				5.05 X
	Add GST (multiplying factor 0.1405) on "X"				0.71
	TOTAL				5.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				0.86
	Total				6.62 Z
	Add Cess @ 1% on "Z"				0.07
	Cost of 1 sqm.				6.69
	Say				6.70
9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).				
	Details of cost for one door shutter of a door 200x108cm = 2.16 sqm. MATERIAL				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm Deduct	100 Nos	0.08	125.00	10.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	-0.60	80.00	-48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm Black enameled Iron	10 Nos	-0.20	49.00	-9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	-0.48	60.00	-28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	-0.08	30.00	-2.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				204.20 W
	Add 1 % Water charges on "W"				2.04
	TOTAL				206.24 X
	Add GST (multiplying factor 0.1405) on "X"				28.98
	TOTAL				235.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.28
	Total				270.50 Z
	Add Cess @ 1% on "Z"				2.71
	Cost of 2.16 sqm.				273.21
	Cost of 1 sqm.				126.48
	Say				126.50
9.15	Deduct for not providing hinges in doors, windows or clerestory window shutters with :				
9.15.1	Stainless steel butt hinges with stainless steel screws :				
9.15.1.1	For 2nd class teak wood and other class of wood shutters				
	Details of cost of fittings for shutter of size 200x108cm = 2.16 sqm.				
	MATERIAL				
	Anodised aluminum butt hinges				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	TOTAL				293.20 W
	Add 1 % Water charges on "W"				2.93
	TOTAL				296.13 X
	Add GST (multiplying factor 0.1405) on "X"				41.61
	TOTAL				337.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.66
	Total				388.40 Z
	Add Cess @ 1% on "Z"				3.88
	Cost of 2.16 sqm.				392.28
	Cost of 1 sqm.				181.61
	Say				181.60
9.15.2	ISI marked M.S. pressed butt hinges bright finished of required size.				
9.15.2.1	For 2nd class teak wood and other class of wood shutters				
	Details of cost of hinges with screws for shutters of size 200x108cm = 2.16 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	TOTAL				89.00 W
	Add 1 % Water charges on "W"				0.89
	TOTAL				89.89 X
	Add GST (multiplying factor 0.1405) on "X"				12.63
	TOTAL				102.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.38
	Total				117.90 Z
	Add Cess @ 1% on "Z"				1.18
	Cost of 2.16 sqm.				119.08
	Cost of 1 sqm.				55.13
	Say				55.15
9.16	Providing and fixing 25 mm thick shutters for cup board etc. :				
9.16.1	Panelled or panelled & glazed shutters :				
9.16.1.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws				
	Details of cost for shutters of a cup-board (half glazed and half panelled) 200x108cm = 2.16 sqm.				
	MATERIAL				
	Styles-				
	4x200x8.0x2.5cm = 0.016 cum+				
	Rails				
	Top rail-				
	1x110.5x8.0x2.5cm = 0.0022cum+				
	Lock and bottom rail-				
	2x110.5x8.0x2.5cm = 0.0044 cum.				
	Panels-				
	2x48x41x1.6cm = 0.006cum+				
	Sash bars-				
	2x114x3.8x2.5cm = 0.003cum+				
	6x48x3.8x2.5cm = 0.003 cum+				
	Beading-				
	16x92x1.4x1.2cm = 0.002cum				
	Total = 0.0366				
	Add for wastage @ 10% = 0.0037 cum.				
	Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	4.00	791.00	3164.00
2204	Carriage of Timber	cum	0.04	121.29	4.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Fittings-	sqm	0.99	300.00	297.00
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	0.60	196.00	117.60
586	Chromium plated Brass screws 40 mm	100 Nos	0.48	290.00	139.20
	LABOUR				
0014	Carpenter 1st class	day	2.40	476.00	1142.40
0021	Glazier	day	0.18	374.50	67.41
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5260.36 W
	Add 1 % Water charges on "W"				52.60
	TOTAL				5312.96 X
	Add GST (multiplying factor 0.1405) on "X"				746.47
	TOTAL				6059.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				908.92
	Total				6968.35 Z
	Add Cess @ 1% on "Z"				69.68
	Cost of 2.16 sqm.				7038.03
	Cost of 1 sqm.				3258.35
	Say				3258.35

9.16.1.2 Second class teak wood including iSi marked nickel plated bright finished M.S. piano hinges with necessary screws

Details of cost for shutters of a cup-board (half glazed and half panelled) 200x108cm = 2.16 sqm.

MATERIAL

Styles-

4x200x8.0x2.5cm = 0.016 cum+

RailsTop rail-

1x110.5x8.0x2.5cm = 0.0022cum+ Lock and

bottom rail-

2x110.5x8.0x2.5cm = 0.0044 cum.

Panels-

2x48x41x1.6cm = 0.006cum+

Sash bars-

2x114x3.8x2.5cm = 0.003cum+

6x48x3.8x2.5cm = 0.003 cum+

Beading-

16x92x1.4x1.2cm = 0.002cum

Total = 0.0366

Add for wastage @ 10% = 0.0037 cum.

Grand Total = 0.0403 cum or 40 cudm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Second class teak wood in planks	10 cudm	4.00	791.00	3164.00
2204	Carriage of Timber	cum	0.04	121.29	4.85
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Fittings-	sqm	0.99	300.00	297.00
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
586	Chromium plated Brass screws 40 mm LABOUR	100 Nos	1.14	290.00	330.60
0014	Carpenter 1st class	day	2.40	476.00	1142.40
0021	Glazier	day	0.18	374.50	67.41
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5490.16 W
	Add 1 % Water charges on "W"				54.90
	TOTAL				5545.06 X
	Add GST (multiplying factor 0.1405) on "X"				779.08
	TOTAL				6324.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				948.62
	Total				7272.77 Z
	Add Cess @ 1% on "Z"				72.73
	Cost of 2.16 sqm.				7345.49
	Cost of 1 sqm.				3400.69
	Say				3400.70

9.16.2 Glazed shutters :

9.16.2.1 Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws

Details of cost for shutter of cup-board

2000x108cm = 2.16 sqm. MATERIAL

(i) Teak wood second class

Styles : 4x200x9.5x2.5 cm = 0.019 cum

Rails

Top & intermediate rails

2x110.5x9.5x2.5 cm = 0.006 cum

Lock and bottom rails

2x110.5x19.7x2.5 cm = 0.011 cum

Beadings-

2x186.1x1.9x1.2cm = 0.001cum+

4x171.70x1.9x1.2cm = 0.002cum.

Total = 0.039 cum.

Add for wastage @ 10% = 0.004 cum.

Grand Total = 0.043 cum. 43 cudm

1190	Second class teak wood in planks	10 cudm	4.30	791.00	3401.30
2406	Float glass sheet of nominal thickness	sqm	1.27	300.00	381.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	4 mm (weight not less than 10kg/sqm).				
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	0.60	196.00	117.60
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.48	36.00	17.28
2204	Carriage of Timber	cum	0.04	121.29	5.22
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5021.76 W
	Add 1 % Water charges on "W"				50.22
	TOTAL				5071.98 X
	Add GST (multiplying factor 0.1405) on "X"				712.61
	TOTAL				5784.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				867.69
	Total				6652.29 Z
	Add Cess @ 1% on "Z"				66.52
	Cost of 2.16 sqm.				6718.81
	Cost of 1 sqm.				3110.56
	Say				3110.55
9.16.2.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws				
	Details of cost for shutter of cup-board 2000x108cm = 2.16 sqm.				
	MATERIAL				
	(i) Teak wood second class				
	Styles : 4x200x9.5x2.5 cm = 0.019 cum				
	Rails				
	Top & intermediate rails				
	2x110.5x9.5x2.5 cm = 0.006 cum				
	Lock and bottom rails				
	2x110.5x19.7x2.5 cm = 0.011 cum				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum+				
	4x171.70x1.9x1.2cm = 0.002cum.				
	Total = 0.039 cum.				
	Add for wastage @ 10% = 0.004 cum.				
	Grand Total = 0.0403 cum or 43 cudm				
1190	Second class teak wood in planks	10 cudm	4.30	791.00	3401.30
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.14	36.00	41.04
2204	Carriage of Timber	cum	0.043	121.29	5.22
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5083.92 W
	Add 1 % Water charges on "W"				50.84
	TOTAL				5134.76 X
	Add GST (multiplying factor 0.1405) on "X"				721.43
	TOTAL				5856.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				878.43
	Total				6734.63 Z
	Add Cess @ 1% on "Z"				67.35
	Cost of 2.16 sqm.				6801.97
	Cost of 1 sqm.				3149.06
	Say				3149.05
9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):				
9.17.1	12 mm thick				
	Details of cost for 350x200cm = 7sqm.				
	MATERIAL				
	12mm thick particle board = 7.00sqm.+ Add wastage @ 5% = 0.35 sqm. Total = 7.35 sqm				
341	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick	sqm	7.35	288.00	2116.80
9977	Carriage of particle board	L.S.	13.52	2.00	27.04
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				2855.54
	Add 1 % Water charges on "W"				28.56
	TOTAL				2884.10 X
	Add GST (multiplying factor 0.1405) on "X"				405.22
	TOTAL				3289.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				493.40
	Total				3782.71 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				37.83
	Cost of 7 sqm.				3820.53
	Cost of 1 sqm.				545.79
	Say				545.80
9.17.2	18 mm thick				
	Details of cost for 350x200cm = 7sqm.				
	MATERIAL				
	12mm thick particle board = 7.00sqm.+ Add wastage @ 5% = 0.35 sqm. Total = 7.35 sqm				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	7.35	480.00	3528.00
9977	Carriage of particle board	L.S.	19.76	2.00	39.52
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				4279.22 W
	Add 1 % Water charges on "W"				42.79
	TOTAL				4322.01 X
	Add GST (multiplying factor 0.1405) on "X"				607.24
	TOTAL				4929.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				739.39
	Total				5668.64 Z
	Add Cess @ 1% on "Z"				56.69
	Cost of 7 sqm.				5725.33
	Cost of 1 sqm.				817.90
	Say				817.90
9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).				
9.18.1	18 mm thick				
	Details of cost for 4 nos.				
	75x20cm shelves = 0.60 sqm.				
	MATERIAL				
	18mm thick particle board 4x75x20cm = 0.60sqm.				
	Add wastage @ 5% = 0.03sqm. Total = 0.63 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	0.63	650.00	409.50
9977	Carriage of board	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.11	374.50	41.20
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries, Painting edges & Screws	L.S.	7.80	2.00	15.60
	TOTAL				487.36 W
	Add 1 % Water charges on "W"				4.87
	TOTAL				492.24 X
	Add GST (multiplying factor 0.1405) on "X"				69.16
	TOTAL				561.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				84.21
	Total				645.61 Z
	Add Cess @ 1% on "Z"				6.46
	Cost of 0.60 sqm.				652.06
	Cost per sqm.				1086.77
	Say				1086.75
9.18.2	25 mm thick				
	Details of cost for 4 nos.				
	75x20cm shelves = 0.60 sqm.				
	MATERIAL				
	25mm thick particle board 4x75x20cm = 0.60sqm.				
	Add wastage @ 5% = 0.03sqm. Total = 0.63 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	0.63	900.00	567.00
9977	Carriage of board	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.11	374.50	41.20
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries, Painting edges & Screws	L.S.	7.80	2.00	15.60
	TOTAL				646.68 W
	Add 1 % Water charges on "W"				6.47
	TOTAL				653.15 X
	Add GST (multiplying factor 0.1405) on "X"				91.77
	TOTAL				744.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				111.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				856.66 Z
	Add Cess @ 1% on "Z"				8.57
	Cost of 0.60 sqm.				865.22
	Cost per sqm.				1442.04
	Say				1442.05
9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2.20	1800.00	3960.00
9977	Carriage of door	L.S.	29.64	2.00	59.28
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
	LABOUR				
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				4657.91 W
	Add 1 % Water charges on "W"				46.58
	TOTAL				4704.49 X
	Add GST (multiplying factor 0.1405) on "X"				660.98
	TOTAL				5365.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				804.82
	Total				6170.29 Z
	Add Cess @ 1% on "Z"				61.70
	Cost for 2.2 sqm.				6232.00
	Cost of 1 sqm.				2832.73
	Say				2832.75
9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2.20	1600.00	3520.00
9977	Carriage of door	L.S.	29.64	2.00	59.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8211	Stainless steel screws 40 mm LABOUR	100 Nos	0.48	215.00	103.20
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				4217.91 W
	Add 1 % Water charges on "W"				42.18
	TOTAL				4260.09 X
	Add GST (multiplying factor 0.1405) on "X"				598.54
	TOTAL				4858.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				728.80
	Total				5587.43 Z
	Add Cess @ 1% on "Z"				55.87
	Cost for 2.2 sqm.				5643.30
	Cost of 1 sqm.				2565.14
	Say				2565.15
9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	2.20	1400.00	3080.00
9977	Carriage of door	L.S.	29.64	2.00	59.28
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.40	39.00	171.60
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.25	36.00	45.00
	LABOUR				
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				3738.31 W
	Add 1 % Water charges on "W"				37.38
	TOTAL				3775.69 X
	Add GST (multiplying factor 0.1405) on "X"				530.49
	TOTAL				4306.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				645.93
	Total				4952.11 Z
	Add Cess @ 1% on "Z"				49.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 2.2 sqm.				5001.63
	Cost of 1 sqm.				2273.47
	Say				2273.45
9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	2.20	950.00	2090.00
9977	Carriage of door	L.S.	29.64	2.00	59.28
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
	LABOUR				
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				2787.91 W
	Add 1 % Water charges on "W"				27.88
	TOTAL				2815.79 X
	Add GST (multiplying factor 0.1405) on "X"				395.62
	TOTAL				3211.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				481.71
	Total				3693.12 Z
	Add Cess @ 1% on "Z"				36.93
	Cost for 2.2 sqm.				3730.05
	Cost of 1 sqm.				1695.48
	Say				1695.50
9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	2.20	900.00	1980.00
9977	Carriage of door	L.S.	29.64	2.00	59.28
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				2677.91 W
	Add 1 % Water charges on "W"				26.78
	TOTAL				2704.69 X
	Add GST (multiplying factor 0.1405) on "X"				380.01
	TOTAL				3084.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				462.70
	Total				3547.40 Z
	Add Cess @ 1% on "Z"				35.47
	Cost for 2.2 sqm.				3582.88
	Cost of 1 sqm.				1628.58
	Say				1628.60
9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws				
	Details of cost for 2.2 sqm.				
	MATERIAL				
719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	2.20	890.00	1958.00
9977	Carriage of door	L.S.	29.64	2.00	59.28
	Fittings-For a door 2.2x1.0m = 2.20 sqm.				
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.40	39.00	171.60
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.25	36.00	45.00
	LABOUR				
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				2616.31 W
	Add 1 % Water charges on "W"				26.16
	TOTAL				2642.47 X
	Add GST (multiplying factor 0.1405) on "X"				371.27
	TOTAL				3013.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				452.06
	Total				3465.80 Z
	Add Cess @ 1% on "Z"				34.66
	Cost for 2.2 sqm.				3500.46
	Cost of 1 sqm.				1591.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1591.10
9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)				
9.22.1	On one side only				
	Details of cost for 1sqm.				
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	1.00	330.00	330.00
	TOTAL				330.00 W
	Add 1 % Water charges on "W"				3.30
	TOTAL				333.30 X
	Add GST (multiplying factor 0.1405) on "X"				46.83
	TOTAL				380.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.02
	Total				437.15 Z
	Add Cess @ 1% on "Z"				4.37
	Cost for 1 sqm.				441.52
	Say				441.50
9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).				
	Details of cost for 1 sqm. of door area				
752	Block board construction flush door lipping	sqm of door area	1.00	300.00	300.00
	TOTAL				300.00 W
	Add 1 % Water charges on "W"				3.00
	TOTAL				303.00 X
	Add GST (multiplying factor 0.1405) on "X"				42.57
	TOTAL				345.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.84
	Total				397.41 Z
	Add Cess @ 1% on "Z"				3.97
	Cost for 1 sqm.				401.38
	Say				401.40
9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):				
9.24.1	Rectangular or square				
	Details of cost for 1 sqm. of door area				
753	Square vision panel (upto 0.10 sqm) in Block board construction flush door	sqm of door area	1.00	130.00	130.00
	TOTAL				130.00 W
	Add 1 % Water charges on "W"				1.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				131.30 X
	Add GST (multiplying factor 0.1405) on "X"				18.45
	TOTAL				149.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.46
	Total				172.21 Z
	Add Cess @ 1% on "Z"				1.72
	Cost for 1 sqm.				173.93
	Say				173.95
9.24.2	Circular				
	Details of cost for 1 sqm. of door area				
754	Circular vision panel (upto 0.10 sqm) in Block board construction flush door	sqm of door area	1.00	135.00	135.00
	TOTAL				135.00 W
	Add 1 % Water charges on "W"				1.35
	TOTAL				136.35 X
	Add GST (multiplying factor 0.1405) on "X"				19.16
	TOTAL				155.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.33
	Total				178.83 Z
	Add Cess @ 1% on "Z"				1.79
	Cost for 1 sqm.				180.62
	Say				180.60
9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).				
9.25.1	Decorative type door				
	Details of cost for 1 sqm. of door area				
755	Decorative type Louvers (upto 0.20 sqm) in Block board construction flush door	sqm of door area	1.00	265.00	265.00
	TOTAL				265.00 W
	Add 1 % Water charges on "W"				2.65
	TOTAL				267.65 X
	Add GST (multiplying factor 0.1405) on "X"				37.60
	TOTAL				305.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.79
	Total				351.04 Z
	Add Cess @ 1% on "Z"				3.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 sqm.				354.55
	Say				354.55
9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).				
	Details of cost for 1 sqm. of door area				
757	Rebate cutting in Block board construction flush door	sqm of door area	1.00	70.00	70.00
	TOTAL				<u>70.00</u> W
	Add 1 % Water charges on "W"				0.70
	TOTAL				<u>70.70</u> X
	Add GST (multiplying factor 0.1405) on "X"				9.93
	TOTAL				<u>80.63</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				12.10
	Total				<u>92.73</u> Z
	Add Cess @ 1% on "Z"				0.93
	Cost for 1 sqm.				<u>93.66</u>
	Say				93.65
9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
9.27.1	35 mm thick shutters				
9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
9.27.1.1.1	Second class teak wood				
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm.				
	MATERIAL				
	Teak wood (2nd class)				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	Total = 0.0514 cum.				
	Say 51.4 cudm.				
1190	Second class teak wood in planks	10 cudm	5.140	791.00	4065.74
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm.				
	Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.0514	121.29	6.23
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.8	2.00	67.60
	TOTAL				5923.78 W
	Add 1 % Water charges on "W"				59.24
	TOTAL				5983.01 X
	Add GST (multiplying factor 0.1405) on "X"				840.61
	TOTAL				6823.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				1023.54
	Total				7847.17 Z
	Add Cess @ 1% on "Z"				78.47
	Cost of 2.16 sqm.				7925.64
	Cost of 1 sqm.				3669.28
	Say				3669.30

9.27.1.1.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings -
(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total
= 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Total = 0.0514 cum.

Say 51.4 cudm.

2505	Hollock wood in planks	10 cudm	5.140	390.00	2004.60
2204	Carriage of Timber	cum	0.0514	121.29	6.23
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.97	2.00	17.94

Wire gauge 2x160x40cm = 1.28 sqm.+ Add
wastage @ 10% = 0.13 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.8	2.00	67.60
	TOTAL				3919.13 W
	Add 1 % Water charges on "W"				39.19
	TOTAL				3958.32 X
	Add GST (multiplying factor 0.1405) on "X"				556.14
	TOTAL				4514.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				677.17
	Total				5191.63 Z
	Add Cess @ 1% on "Z"				51.92
	Cost of 2.16 sqm.				5243.55
	Cost of 1 sqm.				2427.57
	Say				2427.55

9.27.1.1.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Total = 0.0514 cum.

Say 51.4 cudm.

1200	Kiln seasoned selected sheesham wood planks	10 cudm	5.140	650.00	3341.00
2204	Carriage of Timber	cum	0.0514	121.29	6.23
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
					0.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.8	2.00	67.60
	TOTAL				5237.59 W
	Add 1 % Water charges on "W"				52.38
	TOTAL				5289.96 X
	Add GST (multiplying factor 0.1405) on "X"				743.24
	TOTAL				6033.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				904.98
	Total				6938.18 Z
	Add Cess @ 1% on "Z"				69.38
	Cost of 2.16 sqm.				7007.56
	Cost of 1 sqm.				3244.24
	Say				3244.25

9.27.1.2 With ISI marked stainless steel butt hinges of required size

9.27.1.2.1 Second class teak wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Second class Teak wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Total = 0.0514 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Say 51.4 cu dm. Second class teak wood in planks Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	10 cu dm	5.140	791.00	4065.74
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber LABOUR	cum	0.0514	121.29	6.23
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				6127.98 W
	Add 1 % Water charges on "W"				61.28
	TOTAL				6189.26 X
	Add GST (multiplying factor 0.1405) on "X"				869.59
	TOTAL				7058.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				1058.83
	Total				8117.67 Z
	Add Cess @ 1% on "Z"				81.18
	Cost of 2.16 sqm.				8198.85
	Cost of 1 sqm.				3795.76
	Say				3795.75

9.27.1.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16
sqm.

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings -
(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total
= 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0514 cum. Say 51.4 cudm.				
2505	Hollock wood in planks	10 cudm	5.14	390.00	2004.60
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.97	2.00	17.94
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber LABOUR	cum	0.0514	121.29	6.23
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4123.33 W
	Add 1 % Water charges on "W"				41.23
	TOTAL				4164.56 X
	Add GST (multiplying factor 0.1405) on "X"				585.12
	TOTAL				4749.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				712.45
	Total				5462.13 Z
	Add Cess @ 1% on "Z"				54.62
	Cost of 2.16 sqm.				5516.75
	Cost of 1 sqm.				2554.05
	Say				2554.05

9.27.1.2.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16
sqm.

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm.				
1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.14	650.00	3341.00
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber LABOUR	cum	0.0514	121.29	6.23
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5441.79 W
	Add 1 % Water charges on "W"				54.42
	TOTAL				5496.20 X
	Add GST (multiplying factor 0.1405) on "X"				772.22
	TOTAL				6268.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				940.26
	Total				7208.68 Z
	Add Cess @ 1% on "Z"				72.09
	Cost of 2.16 sqm.				7280.77
	Cost of 1 sqm.				3370.73
	Say				3370.75
9.27.2	30 mm thick shutters				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.27.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
9.27.2.1.1	Second class teak wood				
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm.				
	MATERIAL				
	Teak wood (2nd class)				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail				
	2x110.5x19.7x3cm = 0.013 cum+ Beadings -				
	(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum.				
	Say 44 cudm.				
1190	Second class teak wood in planks	10 cudm	4.40	791.00	3480.40
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm.				
	Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5234.07 W
	Add 1 % Water charges on "W"				52.34
	TOTAL				5286.41 X
	Add GST (multiplying factor 0.1405) on "X"				742.74
	TOTAL				6029.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				904.37
	Total				6933.52 Z
	Add Cess @ 1% on "Z"				69.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 2.16 sqm.				7002.86
	Cost of 1 sqm.				3242.06
	Say				3242.05
9.27.2.1.2	Kiln seasoned and chemically treated hollock wood				
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm.				
	MATERIAL				
	Hollock wood				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail				
	2x110.5x19.7x3cm = 0.013 cum+ Beadings -				
	(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum.				
	Say 44 cudm.				
2505	Hollock wood in planks	10 cudm	4.40	390.00	1716.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	9.10	2.00	18.20
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add				
	wastage @ 10% = 0.13 sqm.				
	Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				3520.87 W
	Add 1 % Water charges on "W"				35.21
	TOTAL				3556.08 X
	Add GST (multiplying factor 0.1405) on "X"				499.63

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4055.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				608.36
	Total				4664.06 Z
	Add Cess @ 1% on "Z"				46.64
	Cost of 2.16 sqm.				4710.70
	Cost of 1 sqm.				2180.88
	Say				2180.90

9.27.2.1.3 Kiln seasoned selected class of sheesham wood

	Details of cost for door shutters 2.00x1.08m = 2.16 sqm.				
	MATERIAL				
	Hollock wood				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail				
	2x110.5x19.7x3cm = 0.013 cum+ Beadings -				
	(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum.				
	Say 44 cudm.				
1200	Kiln seasoned selected sheesum wood planks	10 cudm	4.400	650.00	2860.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm.				
	Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4646.67 W
	Add 1 % Water charges on "W"				46.47
	TOTAL				4693.13 X
	Add GST (multiplying factor 0.1405) on "X"				659.39
	TOTAL				5352.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				802.88
	Total				6155.40 Z
	Add Cess @ 1% on "Z"				61.55
	Cost of 2.16 sqm.				6216.95
	Cost of 1 sqm.				2878.22
	Say				2878.20

9.27.2.2 With ISI marked stainless steel butt hinges of required size

9.27.2.2.1 Second class teak wood

Details of cost for door shutters 2.00x1.08m = 2.16

sqm. MATERIAL

Teak wood (2nd class)

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

1190	Second class teak wood in planks	10 cudm	4.400	791.00	3480.40
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5438.27 W
	Add 1 % Water charges on "W"				54.38
	TOTAL				5492.65 X
	Add GST (multiplying factor 0.1405) on "X"				771.72
	TOTAL				6264.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				939.66
	Total				7204.02 Z
	Add Cess @ 1% on "Z"				72.04
	Cost of 2.16 sqm.				7276.06
	Cost of 1 sqm.				3368.55
	Say				3368.55

9.27.2.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

2505	Hollock wood in planks	10 cudm	4.400	390.00	1716.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	8.97	2.00	17.94
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				3724.81 W
	Add 1 % Water charges on "W"				37.25
	TOTAL				3762.05 X
	Add GST (multiplying factor 0.1405) on "X"				528.57
	TOTAL				4290.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				643.59
	Total				4934.22 Z
	Add Cess @ 1% on "Z"				49.34
	Cost of 2.16 sqm.				4983.56
	Cost of 1 sqm.				2307.20
	Say				2307.20

9.27.2.2.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

1200	Kiln seasoned selected sheesum wood planks	10 cudm	4.400	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.41	250.00	352.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 ..	0.08	125.00	10.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR	Nos			
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4850.87 W
	Add 1 % Water charges on "W"				48.51
	TOTAL				4899.38 X
	Add GST (multiplying factor 0.1405) on "X"				688.36
	TOTAL				5587.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				838.16
	Total				6425.90 Z
	Add Cess @ 1% on "Z"				64.26
	Cost of 2.16 sqm.				6490.16
	Cost of 1 sqm.				3004.70
	Say				3004.70
9.31	Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568, for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, as per directions of Engineer-in-charge: (Note:- Butt hinges and necessary screws shall be paid separately)				
9.31.1	35 mm thick shutters				
	Details of cost of one shutter 220x108cm = 2.38sqm.				
	MATERIAL				
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	2.38	1620.00	3855.60
9977	Carriage of shutters Fittings : LABOUR	L.S.	29.64	2.00	59.28
0041	Carpenter (average)	day	0.52	374.50	194.74
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	35.88	2.00	71.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4373.88 W
	Add 1 % Water charges on "W"				43.74
	TOTAL				4417.62 X
	Add GST (multiplying factor 0.1405) on "X"				620.68
	TOTAL				5038.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				755.74
	Total				5794.04 Z
	Add Cess @ 1% on "Z"				57.94
	Cost of 2.38 sqm.				5851.98
	Cost of 1 sqm.				2458.81
	Say				2458.80
9.31.2	30 mm thick shutters				
	Details of cost of one shutter 220x108cm = 2.38sqm.				
	MATERIAL				
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles rails as per TADS IS:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm on both directions with wire of dia 0.63 mm	sqm	2.38	1430.00	3403.40
9977	Carriage of shutters Fittings :	L.S.	29.64	2.00	59.28
	LABOUR				
0041	Carpenter (average)	day	0.52	374.50	194.74
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				3921.68 W
	Add 1 % Water charges on "W"				39.22
	TOTAL				3960.89 X
	Add GST (multiplying factor 0.1405) on "X"				556.51
	TOTAL				4517.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				677.61
	Total				5195.01 Z
	Add Cess @ 1% on "Z"				51.95
	Cost of 2.38 sqm.				5246.96
	Cost of 1 sqm.				2204.61
	Say				2204.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
9.40.1	2nd class teak wood				
9.40.1.1	50x12 mm				
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)				
	MATERIAL				
	Teak wood IInd class in planks				
	500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cum.				
1190	Second class teak wood in planks	10 cudm	0.330	791.00	261.03
2204	Carriage of Timber	cum	0.0033	121.29	0.40
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.36	60.00	21.60
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	0.37	38.95	14.41 A
	For plaining, fixing and making design				
0014	Carpenter 1st class	day	0.53	476.00	252.28
	TOTAL				549.72 W
	Add 1 % Water charges on "W-A"	535.31			5.35
	TOTAL				555.08 X
	Add GST (multiplying factor 0.1405) on "X-A"	540.66			75.96
	TOTAL				631.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	616.63			92.49
	Total				723.53 Z
	Add Cess @ 1% on "Z-A"	709.12			7.09
	Cost of 5 m.				730.62
	Cost of 1 metre				146.12
	Say				146.10

9.40.1.2 50 x 20 mm

Details of cost for beading of a window of size 140x110cm i.e. 500cm. long (5metre)
MATERIAL

Teak wood IInd class in planks

500x5x2.0cm = 0.005cum+

Add for wastage @ 10% = 0.0005 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0055 cum. Say 5.5 cudm.				
1190	Second class teak wood in planks	10 cudm	0.550	791.00	435.05
2204	Carriage of Timber	cum	0.0055	121.29	0.67
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.36	60.00	21.60
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	0.45	38.95	17.53 A
	For plaining, fixing and making design				
0014	Carpenter 1st class	day	0.53	476.00	252.28
	TOTAL				727.13 W
	Add 1 % Water charges on "W-A"	709.60			7.10
	TOTAL				734.22 X
	Add GST (multiplying factor 0.1405) on "X-A"	716.69			100.70
	TOTAL				834.92 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	817.39			122.61
	Total				957.53 Z
	Add Cess @ 1% on "Z-A"	940.00			9.40
	Cost of 5 m.				966.93
	Cost of 1 metre				193.39
	Say				193.40
9.40.2	Kiln seasoned and chemically treated hollock wood				
9.40.2.1	50x12 mm				
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)				
	MATERIAL				
	Hollock wood				
	500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm.				
2505	Hollock wood in planks	10 cudm	0.33	390.00	128.70
2204	Carriage of Timber	cum	0.0033	121.29	0.40
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.36	60.00	21.60
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per item no 13.50.1 of	sqm	0.37	38.95	14.41 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	SH : Finishing LABOUR For plaining, fixing and making design				
0014	Carpenter 1st class	day	0.53	476.00	252.28
	TOTAL				417.39 W
	Add 1 % Water charges on "W-A"	402.98			4.03
	TOTAL				421.42 X
	Add GST (multiplying factor 0.1405) on "X-A"	407.01			57.18
	TOTAL				478.61 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	464.19			69.63
	Total				548.24 Z
	Add Cess @ 1% on "Z-A"	533.82			5.34
	Cost of 5 m.				553.57
	Cost of 1 metre				110.71
	Say				110.70
9.40.2.2	50x20 mm				
	Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)				
	MATERIAL				
	Hollock wood				
	500x50x200mm = 0.005 cum				
	Add for wastage @ 10% = 0.0005 cum.				
	Total = 0.0055 cum. Say 5.5 cudm.				
2505	Hollock wood in planks	10 cudm	0.55	390.00	214.50
2204	Carriage of Timber	cum	0.0055	121.29	0.67
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.36	60.00	21.60
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing LABOUR	sqm	0.45	38.95	17.53 A
	For plaining, fixing and making design				
0014	Carpenter 1st class	day	0.53	476.00	252.28
	TOTAL				506.57
	Add 1 % Water charges on "W-A"	489.05			4.89
	TOTAL				511.47 X
	Add GST (multiplying factor 0.1405) on "X-A"	493.94			69.40
	TOTAL				580.86 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"		563.34		84.50
	Total				665.36 Z
	Add Cess @ 1% on "Z-A"		647.84		6.48
	Cost of 5 m.				671.84
	Cost of 1 metre				134.37
	Say				134.35
9.41	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
9.41.1	Second class teak wood				
	Details of cost of a jaffri 200x110cm = 2.2sqm.				
	MATERIAL				
	Teakwood IInd class				
	Jaffri 210x120x1.0cm = 0.025cum.+ Beading				
	660x5x1.2cm = 0.004cum.				
	Total = 0.029 cum.+				
	Add wastage @ 10% = 0.003 cum.				
	Total = 0.032 cum. Say 32 cudm.				
1190	Second class teak wood in planks	10 cudm	3.20	791.00	2531.20
2204	Carriage of Timber	cum	0.032	121.29	3.88
	LABOUR				
0014	Carpenter 1st class	day	0.75	476.00	357.00
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	0.50	320.83	160.42
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.8	2.00	67.60
	TOTAL				3542.20 W
	Add 1 % Water charges on "W"				35.42
	TOTAL				3577.62 X
	Add GST (multiplying factor 0.1405) on "X"				502.66
	TOTAL				4080.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				612.04
	Total				4692.31 Z
	Add Cess @ 1% on "Z"				46.92
	Cost of 2.2 sqm.				4739.24
	Cost of 1 sqm.				2154.20
	Say				2154.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.				
	Details of cost for a pelmet 2m long MATERIAL (i) 18mm thick particle board (medium density exterior grade) Front-1x1.7x0.15= 0.255sqm.+ Sides- 2x0.15x0.15= 0.045sqm. Total = 0.300sqm.+ Add wastage @5% = 0.015sqm. Total = 0.315sqm. Say 0.32 sqm.				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick 6mm thick commercial ply wood Top-1x1.7x0.15= 0.255sqm.+ Add wastage @ 5% = 0.013 sqm. = 0.268 sqm. Say 0.27 sqm.	sqm	0.32	480.00	153.60
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.27	300.00	81.00
7034	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	72.00	118.80
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9977	Carriage of material	L.S.	0.52	2.00	1.04
9999	M.S. flat 25x3mm and 10cm long over brackets	L.S.	8.06	2.00	16.12
2505	Hollock wood in planks	10	0.032	390.00	12.48
7048	Rawl plug 50 mm (designation 10 no.)	cudm each	2.00	25.00	50.00
	LABOUR				
0015	Carpenter 2nd class	day	0.18	374.50	67.41
0017	Beldar	day	0.18	320.83	57.75
0030	Mistry	day	0.11	476.00	52.36
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				630.02 W
	Add 1 % Water charges on "W"				6.30
	TOTAL				636.32 X
	Add GST (multiplying factor 0.1405) on "X"				89.40
	TOTAL				725.72 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				108.86
	Total				834.58 Z
	Add Cess @ 1% on "Z"				8.35
	Cost of 2 m				842.93
	Cost of 1 metre				421.46
	Say				421.45
9.43	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.				
	Details of cost for a pelmet 2m long				
	MATERIAL				
	(i) 18mm thick Coir veneered board				
	Front-1x1.7x0.15= 0.255sqm.+ Sides-				
	2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm.				
7556	Coir veneered board 18mm thick	sqm	0.32	1000.00	320.00
	6mm thick commercial ply wood Top-1x1.7x0.15=				
	0.255sqm.+				
	Add wastage @ 5% = 0.013 sqm.				
	Total = 0.268 sqm. Say 0.27 sqm.				
7553	Coir veneered board 6mm thick	sqm	0.27	385.00	103.95
7034	Nickle plated M.S. pipe 20 mm dia.	metre	1.65	72.00	118.80
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9977	Carriage of material	L.S.	0.52	2.00	1.04
9999	M.S. flat 25x3mm and 10cm long over brackets	L.S.	8.06	2.00	16.12
2505	Hollock wood in planks	10	0.032	390.00	12.48
		cudm			
7048	Rawl plug 50 mm (designation 10 no.)	each	2.00	25.00	50.00
	LABOUR				
0015	Carpenter 2nd class	day	0.18	374.50	67.41
0017	Beldar	day	0.18	320.83	57.75
0030	Mistry	day	0.11	476.00	52.36
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				819.37 W
	Add 1 % Water charges on "W"				8.19
	TOTAL				827.56 X
	Add GST (multiplying factor 0.1405) on "X"				116.27
	TOTAL				943.84 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				141.58
	Total				1085.41 Z
	Add Cess @ 1% on "Z"				10.85
	Cost of 2 m				1096.27
	Cost of 1 metre				548.13
	Say				548.15
9.44	Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.				
9.44.1	Non decorative veneer on both sides				
	Details of cost for a pelmet 2m long				
	MATERIAL				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1x1.7x0.15= 0.255sqm.+ Sides-				
	2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm.				
347	Extra for veneered particle board with : Commercial veneering on both sides	sqm	0.32	155.00	49.60
	TOTAL				49.60 W
	Add 1 % Water charges on "W"				0.50
	TOTAL				50.10 X
	Add GST (multiplying factor 0.1405) on "X"				7.04
	TOTAL				57.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				8.57
	Total				65.70 Z
	Add Cess @ 1% on "Z"				0.66
	Cost of 2 m				66.36
	Cost of 1 metre				33.18
	Say				33.20
9.44.2	Particle board with decorative veneering on both sides				
	Details of cost for a pelmet 2m long				
	MATERIAL				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1x1.7x0.15= 0.255sqm.+ Sides-				
	2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm.				
348	Extra for veneered particle board with : Teak veneering on both sides	sqm	0.32	500.00	160.00
	TOTAL				160.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				1.60
	TOTAL				161.60 X
	Add GST (multiplying factor 0.1405) on "X"				22.70
	TOTAL				184.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.65
	Total				211.95 Z
	Add Cess @ 1% on "Z"				2.12
	Cost of 2m				214.07
	Cost of 1 metre				107.04
	Say				107.05
9.45	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.				
	Details of cost for 10 metre				
	MATERIAL				
7349	Teak wood lipping of size 25x3 mm in pelmets	metre	10.000	14.00	140.00
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				313.83 W
	Add 1 % Water charges on "W"				3.14
	TOTAL				316.97 X
	Add GST (multiplying factor 0.1405) on "X"				44.53
	TOTAL				361.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.23
	Total				415.73 Z
	Add Cess @ 1% on "Z"				4.16
	Cost for 10 meter				419.89
	Cost of 1 metre				41.99
	Say				42.00
9.46	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :				
9.46.1	12 mm dia				
	Details of cost for 2m long				
	MATERIAL				
590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	2.00	185.00	370.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P. brass screws	L.S.	4.03	2.00	8.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	CARRIAGE	L.S.	1.56	2.00	3.12
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
458	PVC cleaves for screws	each	2.00	2.00	4.00
9999	LABOUR	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				407.76 W
	Add 1 % Water charges on "W"				4.08
	TOTAL				411.84 X
	Add GST (multiplying factor 0.1405) on "X"				57.86
	TOTAL				469.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.46
	Total				540.16 Z
	Add Cess @ 1% on "Z"				5.40
	Cost of 2m				545.56
	Cost of 1 metre				272.78
	Say				272.80
9.46.2	20 mm dia				
	Details of cost for 2m long				
	MATERIAL				
591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	2.00	260.00	520.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P. brass screws	L.S.	4.03	2.00	8.06
9999	CARRIAGE	L.S.	1.56	2.00	3.12
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
458	PVC cleaves for screws	each	2.00	2.00	4.00
9999	LABOUR	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				557.76
	Add 1 % Water charges on "W"				5.58
	TOTAL				563.34 X
	Add GST (multiplying factor 0.1405) on "X"				79.15
	TOTAL				642.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				96.37
	Total				738.86 Z
	Add Cess @ 1% on "Z"				7.39
	Cost of 2m				746.25
	Cost of 1 metre				373.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				373.15
9.46.3	25 mm dia				
	Details of cost for 2m long				
	MATERIAL				
592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	2.00	340.00	680.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P. brass screws	L.S.	4.03	2.00	8.06
9999	CARRIAGE	L.S.	1.56	2.00	3.12
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand)				
458	PVC cleaves for screws	each	2.00	2.00	4.00
9999	LABOUR	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				717.76 W
	Add 1 % Water charges on "W"				7.18
	TOTAL				724.94 X
	Add GST (multiplying factor 0.1405) on "X"				101.85
	TOTAL				826.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				124.02
	Total				950.81 Z
	Add Cess @ 1% on "Z"				9.51
	Cost of 2m				960.32
	Cost of 1 metre				480.16
	Say				480.15
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :				
9.47.1	20 mm dia (heavy type)				
	Details of cost for 2m long				
	MATERIAL				
7034	Nickle plated M.S. pipe 20 mm dia.	metre	2.00	72.00	144.00
7035	Nickle plated M.S. Brackets for curtain rod 20 mm	each	2.00	7.00	14.00
9999	Screws	L.S.	4.03	2.00	8.06
9999	CARRIAGE	L.S.	1.56	2.00	3.12
7048	Rawl plug 50 mm (designation 10 no.)	each	2.00	25.00	50.00
9999	Labour including fixing rawl plug	L.S.	5.20	2.00	10.40
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				232.70 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				2.33
	TOTAL				235.03 X
	Add GST (multiplying factor 0.1405) on "X"				33.02
	TOTAL				268.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.21
	Total				308.26 Z
	Add Cess @ 1% on "Z"				3.08
	Cost for 2 meter				311.34
	Cost of 1 metre				155.67
	Say				155.65

9.47.2 25 mm dia (heavy type)

Details of cost for 2m long

MATERIAL

7033	Nickel plated M.S. pipe 25mm dia	metre	2.00	76.00	152.00
7036	Nickle plated M.S. Brackets for curtain rod 25 mm	each	2.00	8.00	16.00
9999	Screws	L.S.	4.03	2.00	8.06
9999	CARRIAGE	L.S.	1.56	2.00	3.12
7048	Rawl plug 50 mm (designation 10 no.)	each	2.00	25.00	50.00
9999	Labour including fixing rawl plug	L.S.	5.20	2.00	10.40
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				242.70 W
	Add 1 % Water charges on "W"				2.43
	TOTAL				245.13 X
	Add GST (multiplying factor 0.1405) on "X"				34.44
	TOTAL				279.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.94
	Total				321.50 Z
	Add Cess @ 1% on "Z"				3.22
	Cost for 2 meter				324.72
	Cost of 1 metre				162.36
	Say				162.35

9.48 Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :

9.48.1 Fixed to steel windows by welding

Details of cost for a grill 90x120cm = 1.08sqm.

MATERIAL

M.S. bar 16mm dia. metre- 11x86cm = 9.46m.

@ 1.58kg/m = 14.95kg+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 10% = 1.50kg. Total = 16.45kg. Say 0.165q				
1003	Mild steel round bar above 12 mm dia M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm = 1.80m+ 1x120cm = 1.20m+ 2x15cm = 0.30m Total = 5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04q	quintal	0.1650	4400.00	726.00
1008	Flats upto 10 mm in thickness	quintal	0.04	4500.00	180.00
2205	Carriage of Steel 0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne	tonne	0.02	94.34	1.89
9999	Sundries	L.S.	26.91	2.00	53.82
9999	Welding charges Priming coat: Area=1x0.9x1.2x1=1.08 sqm	L.S.	19.76	2.00	39.52
13.50.3	Rate as per Item No.13.50.3 of SH: Finishing LABOUR	sqm	1.08	33.30	35.97 A
0012	Blacksmith 1st class	day	0.86	476.00	409.36
0017	Beldar	day	1.10	320.83	352.91
	TOTAL				1799.47 W
	Add 1 % Water charges on "W-A"	1763.50			17.63
	TOTAL				1817.10 X
	Add GST (multiplying factor 0.1405) on "X-A"	1781.13			250.25
	TOTAL				2067.35 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2031.38			304.71
	Total				2372.06 Z
	Add Cess @ 1% on "Z-A"	2336.09			23.36
	Cost for 18.54 kg.				2395.42
	Cost for 1 kg.				129.20
	Say				129.20

9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.

Details of cost for a grill 90x120cm = 1.08sqm.

MATERIAL

M.S. bar 16mm dia. metre- 11x86cm = 9.46m.

@ 1.58kg/m = 14.95kg+

Add wastage @ 10% = 1.50kg.

Total = 16.45kg. Say 0.165q

1003	Mild steel round bar above 12 mm dia	quintal	0.1650	4400.00	726.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm = 1.80m+ 1x120cm = 1.20m+ 2x15cm = 0.30m Total =5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04q				
1008	Flats upto 10 mm in thickness	quintal	0.04	4500.00	180.00
2205	Carriage of Steel	tonne	0.02	94.34	1.89
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.91	2.00	53.82
9999	Welding charges Priming coat:	L.S.	19.76	2.00	39.52
	Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item No.13.50.3 of SH:Finishing LABOUR	sqm	1.08	33.30	35.97 A
0012	Blacksmith 1st class	day	0.86	476.00	409.36
0017	Beldar	day	1.10	320.83	352.91
7048	Rawl plug 50 mm (designation 10 no.)	each	8.00	25.00	200.00
9999	Fixing of rawl plugs	L.S.	26.00	2.00	52.00
	TOTAL				2051.47 W
	Add 1 % Water charges on "W-A"	2015.50			20.15
	TOTAL				2071.62 X
	Add GST (multiplying factor 0.1405) on "X-A"	2035.65			286.01
	TOTAL				2357.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2321.66			348.25
	Total				2705.88 Z
	Add Cess @ 1% on "Z-A"	2669.91			26.70
	Cost for 18.54 kg.				2732.58
	Cost for 1 kg.				147.39
	Say				147.40
9.49	Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete. Details of cost for a window of size 140x110cm =1.54sqm. MATERIAL Expanded metal -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 1.69 sqm.				
1015	Mild steel expanded metal 20x60 mm strands	sqm	1.69	280.00	473.20
9977	Carriage	L.S.	1.82	2.00	3.64
	Priming coat				
	Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item No.13.50.3 of SH: FINISHING	sqm	1.54	33.30	51.28 A
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum. Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood in planks	10 cudm	0.60	791.00	474.60
2204	Carriage of Timber	cum	0.006	121.29	0.73
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				1261.06 W
	Add 1 % Water charges on "W-A"	1209.78			12.10
	TOTAL				1273.16 X
	Add GST (multiplying factor 0.1405) on "X-A"	1221.88			171.67
	TOTAL				1444.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1393.55			209.03
	Total				1653.87 Z
	Add Cess @ 1% on "Z-A"	1602.58			16.03
	Cost of 1.54 sqm.				1669.89
	Cost of 1 sqm.				1084.35
	Say				1084.35
9.50	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.				
	Details of cost for a window of size 140x110cm =1.54sqm. MATERIAL				
	Hard drawn steel wire fabric -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm.				
1021	Hard drawn steel wire fabric	sqm	1.69	430.00	726.70
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64
	Priming coat				0.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Area=1.40x1.10x1.00=1.54sqm Rate as per Item No.13.50.3 of SH:FINISHING	sqm	1.54	33.30	51.28 A
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum. Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood in planks	10 cudm	0.60	791.00	474.60
2204	Carriage of Timber	cum	0.006	121.29	0.73
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				1500.26
	Add 1 % Water charges on "W-A"	1448.98			14.49
	TOTAL				1514.75 X
	Add GST (multiplying factor 0.1405) on "X-A"	1463.47			205.62
	TOTAL				1720.37 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1669.09			250.36
	Total				1970.73 Z
	Add Cess @ 1% on "Z-A"	1919.45			19.19
	Cost of 1.54 sqm.				1989.93
	Cost of 1 sqm.				1292.16
	Say				1292.15
9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
9.51.1	With 2nd class teak wood beading 62X19 mm				
	Details of cost for a window of size 140x110cm =1.54sqm. MATERIAL				
	Wire gauze -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.690	250.00	422.50
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum. Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood in planks	10 cudm	0.60	791.00	474.60
2204	Carriage of Timber	cum	0.006	121.29	0.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				1144.78 W
	Add 1 % Water charges on "W"				11.45
	TOTAL				1156.23 X
	Add GST (multiplying factor 0.1405) on "X"				162.45
	TOTAL				1318.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				197.80
	Total				1516.48 Z
	Add Cess @ 1% on "Z"				15.16
	Cost of 1.54 sqm.				1531.64
	Cost of 1 sqm.				994.57
	Say				994.55
9.51.2	With 12 mm mild steel U beading				
	Details of cost for a window of size 140x110cm =1.54sqm.				
	MATERIAL				
	Wire gauze -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.690	250.00	422.50
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64
7349	12 mm M.S. 'U' beading	metre	5.00	14.00	70.00
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				739.45 W
	Add 1 % Water charges on "W"				7.39
	TOTAL				746.85 X
	Add GST (multiplying factor 0.1405) on "X"				104.93
	TOTAL				851.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				127.77
	Total				979.55 Z
	Add Cess @ 1% on "Z"				9.80
	Cost of 1.54 sqm.				989.34
	Cost of 1 sqm.				642.43
	Say				642.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.52	Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.				
	Details of cost for 1 sqm.				
	MATERIAL				
1021	Hard drawn steel wire fabric	sqm	1.00	430.00	430.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	-1.00	300.00	-300.00
	Difference of cost				130.00 W
	Add 1 % Water charges on "W"				1.30
	TOTAL				131.30 X
	Add GST (multiplying factor 0.1405) on "X"				18.45
	TOTAL				149.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.46
	Total				172.21 Z
	Add Cess @ 1% on "Z"				1.72
	Extra cost for 1 sqm.				173.93
	Say				173.95
9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).				
	Details of cost for 1 hold fast				
	MATERIAL				
	M.S.flat 40x5mm 40cm long @ 1.68 kg/m = 0.672 kg = 0.0067 quintal				
1008	Flats upto 10 mm in thickness	quintal	0.0067	4500.00	30.15
9977	Carriage of steel	L.S.	1.82	2.00	3.64
	Cement concrete 1:3:6 30x10x15cm= 0.0045cum.+				
	Add wastage @ 10% = 0.00045cum.				
	Total = 0.00495cum. Say 0.005cum.				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.005	6577.55	32.89 A
9999	Bolts and nuts	L.S.	5.46	2.00	10.92
	LABOUR				
0013	Blacksmith 2nd class	day	0.03	374.50	11.24
0023	Mason (brick layer) 1st class	day	0.03	476.00	14.28
0017	Beldar	day	0.03	320.83	9.62
	TOTAL				112.74 W
	Add 1 % Water charges on "W-A"	79.85			0.80
	TOTAL				113.54 X
	Add GST (multiplying factor 0.1405) on "X-A"	80.65			11.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				124.87	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		91.98		13.80	
	Total				138.66	Z
	Add Cess @ 1% on "Z-A"		105.78		1.06	
	Cost for 1 no				139.72	
	Say				139.70	
9.54	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with :					
9.54.1	Sal wood					
	Details of cost for a beam					
	450x30x15cm = 0.203cum. or 203cudm.					
	MATERIAL					
	Sal wood = 203 cudm.+					
	Add wastage @ 2% = 4.06cudm.					
	Total = 207.06cudm. Say 207.1 cudm.					
1199	Sal wood in scantling	10 cudm	20.710	600.00	12426.00	
2204	Carriage of Timber	cum	0.2071	121.29	25.12	
	Priming coat (wood preservative)					
13.57.1	Rate as per item no 13.57.1 SH : Finishing	sqm	0.54	33.65	18.17	A
	LABOUR					
0015	Carpenter 2nd class	day	0.70	374.50	262.15	
0017	Beldar	day	1.45	320.83	465.20	
0010	Bandhani	day	0.70	320.83	224.58	
9999	Sundries	L.S.	26.91	2.00	53.82	
	TOTAL				13475.05	W
	Add 1 % Water charges on "W-A"		13456.87		134.57	
	TOTAL				13609.62	X
	Add GST (multiplying factor 0.1405) on "X-A"		13591.44		1909.60	
	TOTAL				15519.21	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		15501.04		2325.16	
	Total				17844.37	Z
	Add Cess @ 1% on "Z-A"		17826.20		178.26	
	Cost for 203 cudm.				18022.63	
	Cost of 1 cum.				88781.44	
	Say				88781.45	
9.54.2	Hollock wood					
	Details of cost for a beam					
	450x30x15cm = 0.203cum. or 203cudm.					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Hollock wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm.				
2466	Hollock wood in scantling	10 cudm	20.71	350.00	7248.50
2204	Carriage of Timber	cum	0.207	121.29	25.11
	Priming coat (wood preservative)				
13.57.1	Rate as per item no 13.57.1 SH : Finishing	sqm	0.54	33.65	18.17 A
	LABOUR				
0015	Carpenter 2nd class	day	0.70	374.50	262.15
0017	Beldar	day	1.45	320.83	465.20
0010	Bandhani	day	0.70	320.83	224.58
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				8297.53 W
	Add 1 % Water charges on "W-A"	8279.36			82.79
	TOTAL				8380.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	8362.16			1174.88
	TOTAL				9555.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9537.04			1430.56
	Total				10985.77 Z
	Add Cess @ 1% on "Z-A"	10967.59			109.68
	Cost for 203 cudm.				11095.44
	Cost of 1 cum.				54657.35
	Say				54657.35
9.55	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
9.55.1	125x65x2.12 mm				
	Details of cost for ten hinges				
	MATERIAL				
594	Bright finished or black enamelled mild steel butt hinges 125x65x2.12 mm	10 Nos	1.00	135.00	135.00
635	Bright finished or black enamelled mild steel screws 50 mm	100 Nos	0.80	75.00	60.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				281.76 W
	Add 1 % Water charges on "W"				2.82
	TOTAL				284.58 X
	Add GST (multiplying factor 0.1405) on "X"				39.98
	TOTAL				324.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.68
	Total				373.25 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				3.73
	Cost of 10 nos.				376.98
	Cost of 1 no				37.70
	Say				37.70
9.55.2	100x58x1.90 mm				
	Details of cost for ten hinges				
	MATERIAL				
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	1.00	80.00	80.00
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.80	60.00	48.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				214.76 W
	Add 1 % Water charges on "W"				2.15
	TOTAL				216.91 X
	Add GST (multiplying factor 0.1405) on "X"				30.48
	TOTAL				247.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.11
	Total				284.50 Z
	Add Cess @ 1% on "Z"				2.84
	Cost of 10 nos.				287.34
	Cost of 1 no				28.73
	Say				28.75
9.55.3	75x47x1.70 mm				
	Details of cost for ten hinges				
	MATERIAL				
596	Bright finished or black enamelled mild steel butt hinges 75x47x1.70 mm	10 Nos	1.00	56.00	56.00
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.60	45.00	27.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				167.94 W
	Add 1 % Water charges on "W"				1.68
	TOTAL				169.62 X
	Add GST (multiplying factor 0.1405) on "X"				23.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				193.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.02
	Total				222.47 Z
	Add Cess @ 1% on "Z"				2.22
	Cost of 10 nos.				224.70
	Cost of 1 no				22.47
	Say				22.45
9.55.4	50x37x1.50 mm				
	Details of cost for ten hinges				
	MATERIAL				
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	1.00	49.00	49.00
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.40	30.00	12.00
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				92.78 W
	Add 1 % Water charges on "W"				0.93
	TOTAL				93.71 X
	Add GST (multiplying factor 0.1405) on "X"				13.17
	TOTAL				106.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.03
	Total				122.90 Z
	Add Cess @ 1% on "Z"				1.23
	Cost of 10 nos.				124.13
	Cost of 1 no				12.41
	Say				12.40
9.56	Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :				
9.56.1	125x90x4.00 mm				
	Details of cost for ten hinges				
	MATERIAL				
8222	M.S. heavy weight but hinges 125x90x 4.0mm IS : 1341 marked.	10 Nos	1.00	210.00	210.00
635	Bright finished or black enamelled mild steel screws 50 mm	100 Nos	0.80	75.00	60.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				356.76 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.57
	TOTAL				360.33 X
	Add GST (multiplying factor 0.1405) on "X"				50.63
	TOTAL				410.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.64
	Total				472.60 Z
	Add Cess @ 1% on "Z"				4.73
	Cost of 10 nos.				477.33
	Cost of 1 no				47.73
	Say				47.75
9.56.2	100x75x3.50 mm				
	Details of cost for ten hinges				
	MATERIAL				
8223	M.S. heavy weight butt hinges 100x75x 3.5 mm IS: 1341 marked	10 Nos	1.00	160.000	160.00
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.80	60.000	48.00
9977	Carriage of materials	L.S.	2.73	2.000	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.500	52.43
0017	Beldar	day	0.09	320.830	28.87
	TOTAL				294.76 W
	Add 1 % Water charges on "W"				2.95
	TOTAL				297.71 X
	Add GST (multiplying factor 0.1405) on "X"				41.83
	TOTAL				339.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.93
	Total				390.47 Z
	Add Cess @ 1% on "Z"				3.90
	Cost of 10 nos.				394.38
	Cost of 1 no				39.44
	Say				39.45
9.56.3	75x60x3.10 mm				
	Details of cost for ten hinges				
	MATERIAL				
8224	M.S. heavy weight butt hinges 75x60x 3.1 mm IS: 1341 marked	10 Nos	1.00	95.00	95.00
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.60	45.00	27.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				206.94 W
	Add 1 % Water charges on "W"				2.07
	TOTAL				209.01 X
	Add GST (multiplying factor 0.1405) on "X"				29.37
	TOTAL				238.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.76
	Total				274.14 Z
	Add Cess @ 1% on "Z"				2.74
	Cost of 10 nos.				276.88
	Cost of 1 no				27.69
	Say				27.70
9.56.4	50x40x2.50 mm				
	Details of cost for ten hinges				
	MATERIAL				
8225	M.S. heavy weight butt hinges 50x40x 2.5 mm IS : 1341 marked	10 Nos	1.00	80.00	80.00
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.40	30.00	12.00
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				123.78 W
	Add 1 % Water charges on "W"				1.24
	TOTAL				125.02 X
	Add GST (multiplying factor 0.1405) on "X"				17.57
	TOTAL				142.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				21.39
	Total				163.97 Z
	Add Cess @ 1% on "Z"				1.64
	Cost of 10 nos.				165.61
	Cost of 1 no				16.56
	Say				16.55
9.57	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.				
9.57.1	125x65x2.12 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL				
642	Oxidised mild steel butt hinges 125x 65x2.12 mm	10 Nos	1.00	130.00	130.00
682	Oxidised mild steel screws 50 mm	100	0.80	76.00	60.80
9977	Carriage of materials	Nos L.S.	3.64	2.00	7.28
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				279.38 W
	Add 1 % Water charges on "W"				2.79
	TOTAL				282.18 X
	Add GST (multiplying factor 0.1405) on "X"				39.65
	TOTAL				321.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.27
	Total				370.10 Z
	Add Cess @ 1% on "Z"				3.70
	Cost of 10 nos.				373.80
	Cost of 1 no				37.38
	Say				37.40
9.57.2	100x58x1.90 mm				
	Details of cost for 10 nos.				
	MATERIAL				
643	Oxidised mild steel butt hinges 100x 58x1.90 mm	10 Nos	1.00	85.00	85.00
683	Oxidised mild steel screws 40 mm	100	0.80	62.00	49.60
9977	Carriage of materials	Nos L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				221.36 W
	Add 1 % Water charges on "W"				2.21
	TOTAL				223.58 X
	Add GST (multiplying factor 0.1405) on "X"				31.41
	TOTAL				254.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.25
	Total				293.24 Z
	Add Cess @ 1% on "Z"				2.93
	Cost of 10 nos.				296.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no				29.62
	Say				29.60
9.57.3	75x47x1.70 mm				
	Details of cost for 10 nos.				
	MATERIAL				
644	Oxidised mild steel butt hinges 75x 47x1.70 mm	10 Nos	1.00	63.00	63.00
684	Oxidised mild steel screws 30 mm	100 Nos	0.60	49.00	29.40
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				177.34 W
	Add 1 % Water charges on "W"				1.77
	TOTAL				179.12 X
	Add GST (multiplying factor 0.1405) on "X"				25.17
	TOTAL				204.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.64
	Total				234.93 Z
	Add Cess @ 1% on "Z"				2.35
	Cost of 10 nos.				237.28
	Cost of 1 no				23.73
	Say				23.75
9.57.4	50x37x1.50 mm				
	Details of cost for 10 nos.				
	MATERIAL				
645	Oxidised mild steel butt hinges 50x37x 1.50 mm	10 Nos	1.00	53.00	53.00
686	Oxidised mild steel screws 20 mm	100 Nos	0.40	32.00	12.80
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				97.58 W
	Add 1 % Water charges on "W"				0.98
	TOTAL				98.56 X
	Add GST (multiplying factor 0.1405) on "X"				13.85
	TOTAL				112.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				129.26 Z
	Add Cess @ 1% on "Z"				1.29
	Cost of 10 nos.				130.56
	Cost of 1 no				13.06
	Say				13.05
9.58	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete :				
9.58.1	150x125x27x2.80 mm				
	Details of cost for 10 nos.				
	MATERIAL				
646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	1.00	334.00	334.00
683	Oxidised mild steel screws 40 mm	100 Nos	0.80	62.00	49.60
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				486.41 W
	Add 1 % Water charges on "W"				4.86
	TOTAL				491.27 X
	Add GST (multiplying factor 0.1405) on "X"				69.02
	TOTAL				560.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				84.04
	Total				644.34 Z
	Add Cess @ 1% on "Z"				6.44
	Cost of 10 nos.				650.78
	Cost of 1 no				65.08
	Say				65.10
9.58.2	125x125x27x2.80 mm				
	Details of cost for 10 nos.				
	MATERIAL				
647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	1.00	309.00	309.00
683	Oxidised mild steel screws 40 mm	100 Nos	0.80	62.00	49.60
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				461.41 W
	Add 1 % Water charges on "W"				4.61
	TOTAL				466.02 X
	Add GST (multiplying factor 0.1405) on "X"				65.48
	TOTAL				531.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.72
	Total				611.22 Z
	Add Cess @ 1% on "Z"				6.11
	Cost of 10 nos.				617.33
	Cost of 1 no				61.73
	Say				61.75
9.58.3	100x125x27x2.80 mm				
	Details of cost for 10 nos.				
	MATERIAL				
648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	1.00	231.00	231.00
683	Oxidised mild steel screws 40 mm	100 Nos	0.80	62.00	49.60
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				383.41 W
	Add 1 % Water charges on "W"				3.83
	TOTAL				387.24 X
	Add GST (multiplying factor 0.1405) on "X"				54.41
	TOTAL				441.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.25
	Total				507.89 Z
	Add Cess @ 1% on "Z"				5.08
	Cost of 10 nos.				512.97
	Cost of 1 no				51.30
	Say				51.30
9.58.4	75x100x20x2.24 mm				
	Details of cost for 10 nos.				
	MATERIAL				
649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	1.00	196.00	196.00
684	Oxidised mild steel screws 30 mm	100 Nos	0.60	49.00	29.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				328.21 W
	Add 1 % Water charges on "W"				3.28
	TOTAL				331.49 X
	Add GST (multiplying factor 0.1405) on "X"				46.57
	TOTAL				378.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.71
	Total				434.77 Z
	Add Cess @ 1% on "Z"				4.35
	Cost of 10 nos.				439.12
	Cost of 1 no				43.91
	Say				43.90
9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :				
9.59.1	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
650	Oxidised mild steel single acting spring hinges 150 mm	each	10.00	138.00	1380.00
682	Oxidised mild steel screws 50 mm	100 Nos	0.80	76.00	60.80
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1660.23 W
	Add 1 % Water charges on "W"				16.60
	TOTAL				1676.83 X
	Add GST (multiplying factor 0.1405) on "X"				235.59
	TOTAL				1912.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				286.86
	Total				2199.29 Z
	Add Cess @ 1% on "Z"				21.99
	Cost of 10 nos.				2221.28
	Cost of 1 no				222.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				222.15
9.59.2	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
651	Oxidised mild steel single acting spring hinges 125 mm	each	10.00	118.00	1180.00
682	Oxidised mild steel screws 50 mm	100 Nos	0.80	76.00	60.80
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1460.23 W
	Add 1 % Water charges on "W"				14.60
	TOTAL				1474.83 X
	Add GST (multiplying factor 0.1405) on "X"				207.21
	TOTAL				1682.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				252.31
	Total				1934.35 Z
	Add Cess @ 1% on "Z"				19.34
	Cost of 10 nos.				1953.69
	Cost of 1 no				195.37
	Say				195.35
9.59.3	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
652	Oxidised mild steel single acting spring hinges 100 mm	each	10.00	98.00	980.00
683	Oxidised mild steel screws 40 mm	100 Nos	0.80	62.00	49.60
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1249.03 W
	Add 1 % Water charges on "W"				12.49
	TOTAL				1261.52 X
	Add GST (multiplying factor 0.1405) on "X"				177.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1438.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				215.81
	Total				1654.57 Z
	Add Cess @ 1% on "Z"				16.55
	Cost of 10 nos.				1671.12
	Cost of 1 no				167.11
	Say				167.10
9.600	Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.				
9.60.1	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
653	Oxidised mild steel double acting spring hinges 150 mm	each	10.00	157.00	1570.00
682	Oxidised mild steel screws 50 mm	100 Nos	0.80	76.00	60.80
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1850.23 W
	Add 1 % Water charges on "W"				18.50
	TOTAL				1868.73 X
	Add GST (multiplying factor 0.1405) on "X"				262.56
	TOTAL				2131.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				319.69
	Total				2450.98 Z
	Add Cess @ 1% on "Z"				24.51
	Cost of 10 nos.				2475.49
	Cost of 1 no				247.55
	Say				247.55
9.60.2	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
654	Oxidised mild steel double acting spring hinges 125 mm	each	10.00	135.00	1350.00
682	Oxidised mild steel screws 50 mm	100 Nos	0.80	76.00	60.80
9977	Carriage of materials	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1630.23 W
	Add 1 % Water charges on "W"				16.30
	TOTAL				1646.53 X
	Add GST (multiplying factor 0.1405) on "X"				231.34
	TOTAL				1877.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				281.68
	Total				2159.55 Z
	Add Cess @ 1% on "Z"				21.60
	Cost of 10 nos.				2181.14
	Cost of 1 no				218.11
	Say				218.10
9.60.3	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
655	Oxidised mild steel double acting spring hinges 100 mm	each	10.00	118.00	1180.00
683	Oxidised mild steel screws 40 mm	100 Nos	0.80	62.00	49.60
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				1449.03 W
	Add 1 % Water charges on "W"				14.49
	TOTAL				1463.52 X
	Add GST (multiplying factor 0.1405) on "X"				205.62
	TOTAL				1669.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				250.37
	Total				1919.51 Z
	Add Cess @ 1% on "Z"				19.20
	Cost of 10 nos.				1938.71
	Cost of 1 no				193.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				193.85
9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.				
9.61.1	Overall width 35 mm				
	Details of cost for 1 meter				
	MATERIAL				
656	Nickel plated mild steel piono hinges 1 mm thick	metre	1.00	44.00	44.00
	35 mm wide				
686	Oxidised mild steel screws 20 mm	100	0.30	32.00	9.60
		Nos			
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				138.54 W
	Add 1 % Water charges on "W"				1.39
	TOTAL				139.93 X
	Add GST (multiplying factor 0.1405) on "X"				19.66
	TOTAL				159.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.94
	Total				183.53 Z
	Add Cess @ 1% on "Z"				1.84
	Cost for 1 metre				185.36
	Say				185.35
9.61.2	Overall width 50 mm				
	Details of cost for 1 meter				
	MATERIAL				
7485	Oxidised M. S. hinges finished with nickel plating	metre	1.00	40.00	40.00
	50 mm (Over all width)				
686	Oxidised mild steel screws 20 mm	100	0.30	32.00	9.60
		Nos			
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				134.54 W
	Add 1 % Water charges on "W"				1.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				135.89 X
	Add GST (multiplying factor 0.1405) on "X"				19.09
	TOTAL				154.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.25
	Total				178.23 Z
	Add Cess @ 1% on "Z"				1.78
	Cost for 1 metre				180.01
	Say				180.00
9.61.3	Overall width 65 mm				
	Details of cost for 1 meter				
	MATERIAL				
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	1.00	52.00	52.00
686.00	Oxidised mild steel screws 20 mm	100 Nos	0.30	32.00	9.60
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				146.54 W
	Add 1 % Water charges on "W"				1.47
	TOTAL				148.01 X
	Add GST (multiplying factor 0.1405) on "X"				20.80
	TOTAL				168.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.32
	Total				194.13 Z
	Add Cess @ 1% on "Z"				1.94
	Cost for 1 metre				196.07
	Say				196.05
9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
9.62.1	300x16 mm				
	Details of cost for 10 nos.				
	MATERIAL				
660	Oxidised mild steel sliding door bolt 300x16 mm	each	10.00	93.00	930.00
7040	Oxidised mild steel screws 35 mm	100 Nos	1.20	48.00	57.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
641	Bright finished or black enamelled mild steel bolts and nuts 50x6 mm	each	40.00	5.00	200.00
9988	Carriage of materials & sundries	L.S.	6.37	2.00	12.74
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
	TOTAL				1293.97 W
	Add 1 % Water charges on "W"				12.94
	TOTAL				1306.90 X
	Add GST (multiplying factor 0.1405) on "X"				183.62
	TOTAL				1490.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				223.58
	Total				1714.10 Z
	Add Cess @ 1% on "Z"				17.14
	Cost of 10 nos.				1731.24
	Cost of 1 no.				173.12
	Say				173.10
9.62.2	250x16 mm				
	Details of cost for 10 nos.				
	MATERIAL				
661	Oxidised mild steel sliding door bolt 250x16 mm	each	10.00	84.00	840.00
7040	Oxidised mild steel screws 35 mm	100 Nos	1.00	48.00	48.00
641	Bright finished or black enamelled mild steel bolts and nuts 50x6 mm	each	40.00	5.00	200.00
9988	Carriage of materials & sundries	L.S.	6.37	2.00	12.74
	LABOUR				0.00
0015	Carpenter 2nd class	Day	0.25	374.50	93.63
	TOTAL				1194.37 W
	Add 1 % Water charges on "W"				11.94
	TOTAL				1206.31 X
	Add GST (multiplying factor 0.1405) on "X"				169.49
	TOTAL				1375.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				206.37
	Total				1582.16 Z
	Add Cess @ 1% on "Z"				15.82
	Cost of 10 nos.				1597.99
	Cost of 1 no.				159.80
	Say				159.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
9.63.1	250x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	10.00	43.00	430.00
684	Oxidised mild steel screws 30 mm	100 Nos	1.00	49.00	49.00
9977	Carriage of material	L.S.	3.64	2.00	7.28
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				523.73 W
	Add 1 % Water charges on "W"				5.24
	TOTAL				528.97 X
	Add GST (multiplying factor 0.1405) on "X"				74.32
	TOTAL				603.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				90.49
	Total				693.78 Z
	Add Cess @ 1% on "Z"				6.94
	Cost of 10 nos.				700.72
	Cost of 1 no.				70.07
	Say				70.05
9.63.2	200x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	10.00	34.00	340.00
684	Oxidised mild steel screws 30 mm	100 Nos	0.80	49.00	39.20
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				422.11 W
	Add 1 % Water charges on "W"				4.22
	TOTAL				426.33 X
	Add GST (multiplying factor 0.1405) on "X"				59.90
	TOTAL				486.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				72.93
	Total				559.17 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				5.59
	Cost of 10 nos.				564.76
	Cost of 1 no.				56.48
	Say				56.50
9.63.3	150x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	10.00	29.00	290.00
684	Oxidised mild steel screws 30 mm	100 Nos	0.60	49.00	29.40
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				362.31 W
	Add 1 % Water charges on "W"				3.62
	TOTAL				365.93 X
	Add GST (multiplying factor 0.1405) on "X"				51.41
	TOTAL				417.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.60
	Total				479.95 Z
	Add Cess @ 1% on "Z"				4.80
	Cost of 10 nos.				484.75
	Cost of 1 no.				48.47
	Say				48.45
9.63.4	100x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	10.00	20.00	200.00
684	Oxidised mild steel screws 30 mm	100 Nos	0.60	49.00	29.40
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				264.82 W
	Add 1 % Water charges on "W"				2.65
	TOTAL				267.47 X
	Add GST (multiplying factor 0.1405) on "X"				37.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				305.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.76
	Total				350.80 Z
	Add Cess @ 1% on "Z"				3.51
	Cost of 10 nos.				354.31
	Cost of 1 no.				35.43
	Say				35.45
9.64	Providing and fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws,bolts,nuts and washers complete	each	10.00	60.00	600.00
9988	Carriage of materials & sundries	L.S.	6.37	2.00	12.74
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
	TOTAL				706.37 W
	Add 1 % Water charges on "W"				7.06
	TOTAL				713.43 X
	Add GST (multiplying factor 0.1405) on "X"				100.24
	TOTAL				813.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				122.05
	Total				935.72 Z
	Add Cess @ 1% on "Z"				9.36
	Cost of 10 nos.				945.07
	Cost of 1 no.				94.51
	Say				94.50
9.65	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :				
9.65.1	300x20x6 mm				
	Details of cost for 10 nos.				
	MATERIAL				
662	Oxidised mild steel door latch 300x20x6 mm	each	10.00	49.00	490.00
685	Oxidised mild steel screws 25 mm	100 Nos	0.90	36.00	32.40
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0015	Carpenter 2nd class	day	0.12	374.50	44.94
	TOTAL				574.62 W
	Add 1 % Water charges on "W"				5.75
	TOTAL				580.37 X
	Add GST (multiplying factor 0.1405) on "X"				81.54
	TOTAL				661.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.29
	Total				761.19 Z
	Add Cess @ 1% on "Z"				7.61
	Cost of 10 nos.				768.81
	Cost of 1 no.				76.88
	Say				76.90
9.65.2	250x20x6 mm				
	Details of cost for 10 nos.				
	MATERIAL				
663	Oxidised mild steel door latch 250x20x6 mm	each	10.00	39.00	390.00
685	Oxidised mild steel screws 25 mm	100	0.90	36.00	32.40
9977	Carriage of materials	Nos L.S.	3.64	2.00	7.28
	LABOUR				
0015	Carpenter 2nd class	day	0.12	374.50	44.94
	TOTAL				474.62 W
	Add 1 % Water charges on "W"				4.75
	TOTAL				479.37 X
	Add GST (multiplying factor 0.1405) on "X"				67.35
	TOTAL				546.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.01
	Total				628.72 Z
	Add Cess @ 1% on "Z"				6.29
	Cost of 10 nos.				635.01
	Cost of 1 no.				63.50
	Say				63.50
9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.66.1	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
668	Oxidised mild steel handles 125 mm	each	10.00	20.00	200.00
685	Oxidised mild steel screws 25 mm	100 Nos	0.40	36.00	14.40
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.06	374.50	22.47
	TOTAL				242.33 W
	Add 1 % Water charges on "W"				2.42
	TOTAL				244.75 X
	Add GST (multiplying factor 0.1405) on "X"				34.39
	TOTAL				279.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.87
	Total				321.01 Z
	Add Cess @ 1% on "Z"				3.21
	Cost of 10 nos.				324.22
	Cost of 1 no.				32.42
	Say				32.40
9.66.2	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
669	Oxidised mild steel handles 100 mm	each	10.00	15.00	150.00
685	Oxidised mild steel screws 25 mm	100 Nos	0.40	36.00	14.40
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.06	374.50	22.47
	TOTAL				190.51 W
	Add 1 % Water charges on "W"				1.91
	TOTAL				192.42 X
	Add GST (multiplying factor 0.1405) on "X"				27.03
	TOTAL				219.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.92
	Total				252.37 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				2.52
	Cost of 10 nos.				254.89
	Cost of 1 no.				25.49
	Say				25.50
9.66.3	75 mm				
	Details of cost for 10 nos.				
	MATERIAL				
670	Oxidised mild steel handles 75 mm	each	10.00	12.00	120.00
685	Oxidised mild steel screws 25 mm	100	0.40	36.00	14.40
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.06	374.50	22.47
	TOTAL				160.51 W
	Add 1 % Water charges on "W"				1.61
	TOTAL				162.12 X
	Add GST (multiplying factor 0.1405) on "X"				22.78
	TOTAL				184.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.73
	Total				212.63 Z
	Add Cess @ 1% on "Z"				2.13
	Cost of 10 nos.				214.75
	Cost of 1 no.				21.48
	Say				21.50
9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :				
9.67.1	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
679	Oxidised mild steel hasps and staples (safety type) 10 Nos 150 mm		1.00	128.00	128.00
685	Oxidised mild steel screws 25 mm	100 Nos	0.80	36.00	28.80
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				190.40 W
	Add 1 % Water charges on "W"				1.90
	TOTAL				192.30 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				27.02
	TOTAL				219.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.90
	Total				252.22 Z
	Add Cess @ 1% on "Z"				2.52
	Cost of 10 nos.				254.74
	Cost of 1 no.				25.47
	Say				25.45
9.67.2	115 mm				
	Details of cost for 10 nos.				
	MATERIAL				
680	Oxidised mild steel hasps and staples (safety type) 10 Nos		1.00	108.00	108.00
	115 mm				
685	Oxidised mild steel screws 25 mm	100	0.70	36.00	25.20
		Nos			
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				166.80 W
	Add 1 % Water charges on "W"				1.67
	TOTAL				168.47 X
	Add GST (multiplying factor 0.1405) on "X"				23.67
	TOTAL				192.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.82
	Total				220.96 Z
	Add Cess @ 1% on "Z"				2.21
	Cost of 10 nos.				223.17
	Cost of 1 no.				22.32
	Say				22.30
9.67.3	90 mm				
	Details of cost for 10 nos.				
	MATERIAL				
681	Oxidised mild steel hasps and staples (safety type) 10 Nos		1.00	79.00	79.00
	90 mm				
685	Oxidised mild steel screws 25 mm	100	0.70	36.00	25.20
		Nos			
9977	Carriage of materials	L.S.	1.82	2.00	3.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				137.80 W
	Add 1 % Water charges on "W"				1.38
	TOTAL				139.18 X
	Add GST (multiplying factor 0.1405) on "X"				19.55
	TOTAL				158.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.81
	Total				182.54 Z
	Add Cess @ 1% on "Z"				1.83
	Cost of 10 nos.				184.37
	Cost of 1 no.				18.44
	Say				18.45
9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.				
9.68.1	300 mm weighing not less than 200 gms				
	Details of cost for 10 nos.				
	MATERIAL				
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	10.00	35.00	350.00
684	Oxidised mild steel screws 30 mm	100	0.40	49.00	19.60
9977	Carriage of materials	Nos L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				408.87 W
	Add 1 % Water charges on "W"				4.09
	TOTAL				412.96 X
	Add GST (multiplying factor 0.1405) on "X"				58.02
	TOTAL				470.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.65
	Total				541.63 Z
	Add Cess @ 1% on "Z"				5.42
	Cost of 10 nos.				547.04
	Cost of 1 no.				54.70
	Say				54.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.68.2	250 mm weighing not less than 150 gms				
	Details of cost for 10 nos.				
	MATERIAL				
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	10.00	30.00	300.00
685	Oxidised mild steel screws 25 mm	100	0.40	36.00	14.40
		Nos			
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				353.67 W
	Add 1 % Water charges on "W"				3.54
	TOTAL				357.21 X
	Add GST (multiplying factor 0.1405) on "X"				50.19
	TOTAL				407.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.11
	Total				468.50 Z
	Add Cess @ 1% on "Z"				4.69
	Cost of 10 nos.				473.19
	Cost of 1 no.				47.32
	Say				47.30
9.68.3	200 mm weighing not less than 120 gms				
	Details of cost for 10 nos.				
	MATERIAL				
7065	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	10.00	25.00	250.00
685	Oxidised mild steel screws 25 mm	100	0.40	36.00	14.40
		Nos			
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				303.67 W
	Add 1 % Water charges on "W"				3.04
	TOTAL				306.71 X
	Add GST (multiplying factor 0.1405) on "X"				43.09
	TOTAL				349.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.47
	Total				402.27 Z
	Add Cess @ 1% on "Z"				4.02
	Cost of 10 nos.				406.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				40.63
	Say				40.65
9.69	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less than 450 gms)				
	Details of cost for 10 nos.				
	MATERIAL				
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	10.00	57.00	570.00
685	Oxidised mild steel screws 25 mm	100	0.60	36.00	21.60
9977	Carriage of materials	Nos L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				630.87 W
	Add 1 % Water charges on "W"				6.31
	TOTAL				637.18 X
	Add GST (multiplying factor 0.1405) on "X"				89.52
	TOTAL				726.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				109.01
	Total				835.71 Z
	Add Cess @ 1% on "Z"				8.36
	Cost of 10 nos.				844.06
	Cost of 1 no.				84.41
	Say				84.40
9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
9.70.1	125x64x1.90 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8215	Stainless steel butt hinges 125x64x 1.9 mm IS : 12817 marked	10 Nos	1.00	265.00	265.00
8210	Stainless steel screws 50 mm	100	0.80	270.00	216.00
9977	Carriage of materials	Nos L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				567.76 W
	Add 1 % Water charges on "W"				5.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				573.44 X
	Add GST (multiplying factor 0.1405) on "X"				80.57
	TOTAL				654.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				98.10
	Total				752.11 Z
	Add Cess @ 1% on "Z"				7.52
	Cost of 10 nos.				759.63
	Cost of 1 no.				75.96
	Say				75.95
9.70.2	100X58X1.90 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	1.00	235.00	235.00
8211	Stainless steel screws 40 mm	100 Nos	0.80	215.00	172.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				493.76 W
	Add 1 % Water charges on "W"				4.94
	TOTAL				498.70 X
	Add GST (multiplying factor 0.1405) on "X"				70.07
	TOTAL				568.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.32
	Total				654.09 Z
	Add Cess @ 1% on "Z"				6.54
	Cost of 10 nos.				660.63
	Cost of 1 no.				66.06
	Say				66.05
9.70.3	75x47x1.80 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	1.00	160.00	160.00
8212	Stainless steel screws 30 mm	100 Nos	0.60	190.00	114.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				358.94 W
	Add 1 % Water charges on "W"				3.59
	TOTAL				362.53 X
	Add GST (multiplying factor 0.1405) on "X"				50.94
	TOTAL				413.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.02
	Total				475.49 Z
	Add Cess @ 1% on "Z"				4.75
	Cost of 10 nos.				480.25
	Cost of 1 no.				48.02
	Say				48.00
9.70.4	50x37x1.50 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	1.00	135.00	135.00
8214	Stainless steel screws 20 mm	100 Nos	0.40	125.00	50.00
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				216.78 W
	Add 1 % Water charges on "W"				2.17
	TOTAL				218.95 X
	Add GST (multiplying factor 0.1405) on "X"				30.76
	TOTAL				249.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.46
	Total				287.17 Z
	Add Cess @ 1% on "Z"				2.87
	Cost of 10 nos.				290.04
	Cost of 1 no.				29.00
	Say				29.00
9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :				
9.71.1	125x64x2.50 mm				
	Details of cost for 10 nos.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	1.00	350.00	350.00
8210	Stainless steel screws 50 mm	100 Nos	0.80	270.00	216.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				652.76 W
	Add 1 % Water charges on "W"				6.53
	TOTAL				659.29 X
	Add GST (multiplying factor 0.1405) on "X"				92.63
	TOTAL				751.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.79
	Total				864.71 Z
	Add Cess @ 1% on "Z"				8.65
	Cost of 10 nos.				873.36
	Cost of 1 no.				87.34
	Say				87.35
9.71.2	100x60x2.50 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	1.00	255.00	255.00
8211	Stainless steel screws 40 mm	100 Nos	0.80	215.00	172.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				513.76 W
	Add 1 % Water charges on "W"				5.14
	TOTAL				518.90 X
	Add GST (multiplying factor 0.1405) on "X"				72.91
	TOTAL				591.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				88.77
	Total				680.58 Z
	Add Cess @ 1% on "Z"				6.81
	Cost of 10 nos.				687.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				68.74
	Say				68.75
9.71.3	75x50x2.50 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	1.00	205.00	205.00
8212	Stainless steel screws 30 mm	100 Nos	0.60	190.00	114.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				403.94 W
	Add 1 % Water charges on "W"				4.04
	TOTAL				407.98 X
	Add GST (multiplying factor 0.1405) on "X"				57.32
	TOTAL				465.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.80
	Total				535.10 Z
	Add Cess @ 1% on "Z"				5.35
	Cost of 10 nos.				540.45
	Cost of 1 no.				54.05
	Say				54.05
9.72	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :				
9.72.1	125x85x5.5 mm (heavy type)				
	Details of cost for 10 nos.				
	MATERIAL				
382	Brass butt hinges (heavy type) : 125x85x5.5 mm(.70)kg	10 Nos	1.00	1309.00	1309.00
449	Brass screws 50 mm	100 Nos	1.00	220.00	220.00
9977	Carriage of material	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1635.00 W
	Add 1 % Water charges on "W"				16.35
	TOTAL				1651.35 X
	Add GST (multiplying factor 0.1405) on "X"				232.02
	TOTAL				1883.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				282.51
	Total				2165.87 Z
	Add Cess @ 1% on "Z"				21.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 nos.				2187.53
	Cost of 1 no.				218.75
	Say				218.75
9.72.2	125x70x4 mm (ordinary type)				
	Details of cost for 10 nos.				
	MATERIAL				
378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	1.00	775.00	775.00
449	Brass screws 50 mm	100 Nos	1.00	220.00	220.00
9977	Carriage of material	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1101.00 W
	Add 1 % Water charges on "W"				11.01
	TOTAL				1112.01 X
	Add GST (multiplying factor 0.1405) on "X"				156.24
	TOTAL				1268.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				190.24
	Total				1458.49 Z
	Add Cess @ 1% on "Z"				14.58
	Cost of 10 nos.				1473.07
	Cost of 1 no.				147.31
	Say				147.30
9.72.3	100x85x5.5 mm (heavy type)				
	Details of cost for 10 nos.				
	MATERIAL				
383	Brass butt hinges (heavy type) : 100x85x5.5 mm(.56)kg	10 Nos	1.00	997.00	997.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1237.18 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				12.37
	TOTAL				1249.55 X
	Add GST (multiplying factor 0.1405) on "X"				175.56
	TOTAL				1425.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				213.77
	Total				1638.88 Z
	Add Cess @ 1% on "Z"				16.39
	Cost of 10 nos.				1655.27
	Cost of 1 no.				165.53
	Say				165.55
9.72.4	100x70x4 mm (ordinary type)				
	Details of cost for 10 nos.				
	MATERIAL				
379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	1.00	625.00	625.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				865.18 W
	Add 1 % Water charges on "W"				8.65
	TOTAL				873.83 X
	Add GST (multiplying factor 0.1405) on "X"				122.77
	TOTAL				996.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				149.49
	Total				1146.10 Z
	Add Cess @ 1% on "Z"				11.46
	Cost of 10 nos.				1157.56
	Cost of 1 no.				115.76
	Say				115.75
9.72.5	75x65x4 mm (heavy type)				
	Details of cost for 10 nos.				
	MATERIAL				
384	Brass butt hinges (heavy type) : 75x65x4.0 mm(.20)kg	10 Nos	1.00	838.00	838.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
451	Brass screws 30 mm	100 Nos	0.60	140.00	84.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1026.18 W
	Add 1 % Water charges on "W"				10.26
	TOTAL				1036.44 X
	Add GST (multiplying factor 0.1405) on "X"				145.62
	TOTAL				1182.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				177.31
	Total				1359.38 Z
	Add Cess @ 1% on "Z"				13.59
	Cost of 10 nos.				1372.97
	Cost of 1 no.				137.30
	Say				137.30

9.72.6 75x40x2.5 mm (ordinary type)

Details of cost for 10 nos.

MATERIAL

380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	1.00	380.00	380.00
451	Brass screws 30 mm	100 Nos	0.60	140.00	84.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				568.18 W
	Add 1 % Water charges on "W"				5.68
	TOTAL				573.86 X
	Add GST (multiplying factor 0.1405) on "X"				80.63
	TOTAL				654.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				98.17
	Total				752.67 Z
	Add Cess @ 1% on "Z"				7.53
	Cost of 10 nos.				760.19
	Cost of 1 no.				76.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				76.00
9.72.7	50x40x2.5 mm (ordinary type)				
	Details of cost for 10 nos.				
	MATERIAL				
381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	1.00	155.00	155.00
453	Brass screws 20 mm	100 Nos	0.40	95.00	38.00
9977	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				234.72 W
	Add 1 % Water charges on "W"				2.35
	TOTAL				237.07 X
	Add GST (multiplying factor 0.1405) on "X"				33.31
	TOTAL				270.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.56
	Total				310.93 Z
	Add Cess @ 1% on "Z"				3.11
	Cost of 10 nos.				314.04
	Cost of 1 no.				31.40
	Say				31.40
9.73	Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete :				
9.73.1	150x125x27x5 mm				
	Details of cost for 10 nos.				
	MATERIAL				
385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	1.00	2610.00	2610.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2863.02 W
	Add 1 % Water charges on "W"				28.63
	TOTAL				2891.65 X
	Add GST (multiplying factor 0.1405) on "X"				406.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3297.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				494.69
	Total				3792.61 Z
	Add Cess @ 1% on "Z"				37.93
	Cost of 10 nos.				3830.54
	Cost of 1 no.				383.05
	Say				383.05
9.73.2	125x125x27x5 mm				
	Details of cost for 10 nos.				
	MATERIAL				
386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	1.00	2300.00	2300.00
450	Brass screws 40 mm	100	0.80	170.00	136.00
9977	Carriage of materials	Nos L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2553.02 W
	Add 1 % Water charges on "W"				25.53
	TOTAL				2578.55 X
	Add GST (multiplying factor 0.1405) on "X"				362.29
	TOTAL				2940.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				441.12
	Total				3381.96 Z
	Add Cess @ 1% on "Z"				33.82
	Cost of 10 nos.				3415.78
	Cost of 1 no.				341.58
	Say				341.60
9.73.3	100x125x27x5 mm				
	Details of cost for 10 nos.				
	MATERIAL				
387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	1.00	2090.00	2090.00
450	Brass screws 40 mm	100	0.80	170.00	136.00
9977	Carriage of materials	Nos L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2343.02 W
	Add 1 % Water charges on "W"				23.43
	TOTAL				2366.45 X
	Add GST (multiplying factor 0.1405) on "X"				332.49
	TOTAL				2698.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				404.84
	Total				3103.77 Z
	Add Cess @ 1% on "Z"				31.04
	Cost of 10 nos.				3134.81
	Cost of 1 no.				313.48
	Say				313.50
9.73.4	75x100x20x3.2 mm				
	Details of cost for 10 nos.				
	MATERIAL				
388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1.00	1870.00	1870.00
451	Brass screws 30 mm	100 Nos	0.60	140.00	84.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2071.02 W
	Add 1 % Water charges on "W"				20.71
	TOTAL				2091.73 X
	Add GST (multiplying factor 0.1405) on "X"				293.89
	TOTAL				2385.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				357.84
	Total				2743.46 Z
	Add Cess @ 1% on "Z"				27.43
	Cost of 10 nos.				2770.89
	Cost of 1 no.				277.09
	Say				277.10
9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.74.1	250x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
400	Brass tower bolt (barrel type) 250x10 mm	each	10.00	257.00	2570.00
451	Brass screws 30 mm	100	1.00	140.00	140.00
		Nos			
9977	Carriage of materials	L.S.	4.55	2.00	9.10
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				2766.70 W
	Add 1 % Water charges on "W"				27.67
	TOTAL				2794.37 X
	Add GST (multiplying factor 0.1405) on "X"				392.61
	TOTAL				3186.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				478.05
	Total				3665.02 Z
	Add Cess @ 1% on "Z"				36.65
	Cost of 10 nos.				3701.67
	Cost of 1 no.				370.17
	Say				370.15
9.74.2	200x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
401	Brass tower bolt (barrel type) 200x10 mm	each	10.00	205.00	2050.00
451	Brass screws 30 mm	100	0.80	140.00	112.00
		Nos			
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				2215.06 W
	Add 1 % Water charges on "W"				22.15
	TOTAL				2237.21 X
	Add GST (multiplying factor 0.1405) on "X"				314.33
	TOTAL				2551.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				382.73
	Total				2934.27 Z
	Add Cess @ 1% on "Z"				29.34
	Cost of 10 nos.				2963.61
	Cost of 1 no.				296.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				296.35
9.74.3	150x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
402	Brass tower bolt (barrel type) 150x10 mm	each	10.00	154.00	1540.00
451	Brass screws 30 mm	100	0.80	140.00	112.00
		Nos			
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1705.06 W
	Add 1 % Water charges on "W"				17.05
	TOTAL				1722.11 X
	Add GST (multiplying factor 0.1405) on "X"				241.96
	TOTAL				1964.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				294.61
	Total				2258.68 Z
	Add Cess @ 1% on "Z"				22.59
	Cost of 10 nos.				2281.26
	Cost of 1 no.				228.13
	Say				228.15
9.74.4	100x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
403	Brass tower bolt (barrel type) 100x10 mm	each	10.00	103.00	1030.00
451	Brass screws 30 mm	100	0.60	140.00	84.00
		Nos			
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1167.06 W
	Add 1 % Water charges on "W"				11.67
	TOTAL				1178.73 X
	Add GST (multiplying factor 0.1405) on "X"				165.61
	TOTAL				1344.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				201.65
	Total				1545.99 Z
	Add Cess @ 1% on "Z"				15.46
	Cost of 10 nos.				1561.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				156.15
	Say				156.15
9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
9.75.1	300x16x5 mm				
	Details of cost for 10 nos.				
	MATERIAL				
411	Brass door latch 300x16x5 mm (0.380 kg)	each	10.00	185.00	1850.00
452	Brass screws 25 mm	100	0.90	100.00	90.00
9977	Carriage of materials	Nos L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.12	476.00	57.12
	TOTAL				2004.40 W
	Add 1 % Water charges on "W"				20.04
	TOTAL				2024.44 X
	Add GST (multiplying factor 0.1405) on "X"				284.43
	TOTAL				2308.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				346.33
	Total				2655.21 Z
	Add Cess @ 1% on "Z"				26.55
	Cost of 10 nos.				2681.76
	Cost of 1 no.				268.18
	Say				268.20
9.75.2	250x16x5 mm				
	Details of cost for 10 nos.				
	MATERIAL				
412	Brass door latch 250x16x5 mm (0.350 kg)	each	10.00	175.00	1750.00
452	Brass screws 25 mm	100 Nos	0.90	100.00	90.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.12	476.00	57.12
	TOTAL				1904.40 W
	Add 1 % Water charges on "W"				19.04
	TOTAL				1923.44 X
	Add GST (multiplying factor 0.1405) on "X"				270.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2193.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				329.05
	Total				2522.74 Z
	Add Cess @ 1% on "Z"				25.23
	Cost of 10 nos.				2547.97
	Cost of 1 no.				254.80
	Say				254.80
9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.				
	Details of cost for one No				
	MATERIAL				
413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	400.00	400.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries (screws, carriage etc.)	L.S.	3.64	2.00	7.28
	TOTAL				488.20 W
	Add 1 % Water charges on "W"				4.88
	TOTAL				493.08 X
	Add GST (multiplying factor 0.1405) on "X"				69.28
	TOTAL				562.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				84.35
	Total				646.71 Z
	Add Cess @ 1% on "Z"				6.47
	Cost of 1 no				653.18
	Say				653.20
9.77	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete.				
	Details of cost for one No				
	MATERIAL				
414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	1.00	310.00	310.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries (screws, carriage etc.)	L.S.	3.64	2.00	7.28
	TOTAL				398.20 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.98
	TOTAL				402.18 X
	Add GST (multiplying factor 0.1405) on "X"				56.51
	TOTAL				458.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.80
	Total				527.49 Z
	Add Cess @ 1% on "Z"				5.27
	Cost of 1 no				532.77
	Say				532.75
9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.				
	Details of cost for one No				
	MATERIAL				
438	Brass Night latch	each	1.00	610.00	610.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries (screws, carriage etc.)	L.S.	3.64	2.00	7.28
	TOTAL				698.20 W
	Add 1 % Water charges on "W"				6.98
	TOTAL				705.18 X
	Add GST (multiplying factor 0.1405) on "X"				99.08
	TOTAL				804.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				120.64
	Total				924.90 Z
	Add Cess @ 1% on "Z"				9.25
	Cost of 1 no				934.15
	Say				934.15
9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
9.79.1	40 mm				
	Details of cost for one No				
	MATERIAL				
2451	Brass cupboard lock 6 levers (best make of approved quality) 40 mm size	each	1.00	55.00	55.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				143.20 W
	Add 1 % Water charges on "W"				1.43
	TOTAL				144.63 X
	Add GST (multiplying factor 0.1405) on "X"				20.32
	TOTAL				164.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.74
	Total				189.70 Z
	Add Cess @ 1% on "Z"				1.90
	Cost of 1 no				191.59
	Say				191.60
9.79.2	50 mm				
	Details of cost for one No				
	MATERIAL				
2452	Brass cupboard lock 6 levers (best make of approved quality) 50 mm size	each	1.00	85.00	85.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				173.20 W
	Add 1 % Water charges on "W"				1.73
	TOTAL				174.93 X
	Add GST (multiplying factor 0.1405) on "X"				24.58
	TOTAL				199.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.93
	Total				229.44 Z
	Add Cess @ 1% on "Z"				2.29
	Cost of 1 no				231.73
	Say				231.75
9.79.3	65 mm				
	Details of cost for one No				
	MATERIAL				
2453	Brass cupboard lock 6 levers (best make of approved quality) 65 mm size	each	1.00	90.00	90.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				178.20 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				1.78
	TOTAL				179.98 X
	Add GST (multiplying factor 0.1405) on "X"				25.29
	TOTAL				205.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.79
	Total				236.06 Z
	Add Cess @ 1% on "Z"				2.36
	Cost of 1 no				238.42
	Say				238.40
9.79.4	75 mm				
	Details of cost for one No				
	MATERIAL				
2454	Brass cupboard lock 6 levers (best make of approved quality) 75 mm size	each	1.00	105.00	105.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				193.20 W
	Add 1 % Water charges on "W"				1.93
	TOTAL				195.13 X
	Add GST (multiplying factor 0.1405) on "X"				27.42
	TOTAL				222.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.38
	Total				255.93 Z
	Add Cess @ 1% on "Z"				2.56
	Cost of 1 no				258.49
	Say				258.50
9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.				
	Details of cost for 10 nos.				
	MATERIAL				
447	Brass cupboard knob or ward robe knob 50 mm	each	10.00	36.00	360.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
	TOTAL				432.10 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				4.32
	TOTAL				436.42 X
	Add GST (multiplying factor 0.1405) on "X"				61.32
	TOTAL				497.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.66
	Total				572.40 Z
	Add Cess @ 1% on "Z"				5.72
	Cost of 10 nos				578.12
	Cost of 1 no				57.81
	Say				57.80
9.81	Providing and fixing bright finished brass handles with screws etc. complete:				
9.81.1	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
408	Brass handles 125 mm with plate 175x32 mm	each	10.00	144.00	1440.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
		Nos			
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1514.02 W
	Add 1 % Water charges on "W"				15.14
	TOTAL				1529.16 X
	Add GST (multiplying factor 0.1405) on "X"				214.85
	TOTAL				1744.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				261.60
	Total				2005.61 Z
	Add Cess @ 1% on "Z"				20.06
	Cost of 10 nos				2025.66
	Cost of 1 no				202.57
	Say				202.55
9.81.2	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
409	Brass handles 100 mm with plate 150x32 mm	each	10.00	133.00	1330.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
		Nos			
9977	Carriage of material	L.S.	0.91	2.00	1.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1400.38 W
	Add 1 % Water charges on "W"				14.00
	TOTAL				1414.38 X
	Add GST (multiplying factor 0.1405) on "X"				198.72
	TOTAL				1613.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				241.97
	Total				1855.07 Z
	Add Cess @ 1% on "Z"				18.55
	Cost of 10 nos				1873.62
	Cost of 1 no				187.36
	Say				187.35
9.81.3	75 mm				
	Details of cost for 10 nos.				
	MATERIAL				
410	Brass handles 75 mm with plate 125x32 mm	each	10.00	103.00	1030.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
9977	Carriage of material	Nos L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1100.38 W
	Add 1 % Water charges on "W"				11.00
	TOTAL				1111.38 X
	Add GST (multiplying factor 0.1405) on "X"				156.15
	TOTAL				1267.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				190.13
	Total				1457.66 Z
	Add Cess @ 1% on "Z"				14.58
	Cost of 10 nos				1472.24
	Cost of 1 no				147.22
	Say				147.20
9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 hanging floor door stopper				
	MATERIAL				
2455	Brass hanging type door stopper 150 mm	each	10.00	75.00	750.00
452	Brass screws 25 mm	100	0.20	100.00	20.00
9977	Carriage of material	Nos L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.03	476.00	14.28
	TOTAL				789.74 W
	Add 1 % Water charges on "W"				7.90
	TOTAL				797.64 X
	Add GST (multiplying factor 0.1405) on "X"				112.07
	TOTAL				909.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				136.46
	Total				1046.16 Z
	Add Cess @ 1% on "Z"				10.46
	Cost of 10 nos				1056.62
	Cost of 1 no				105.66
	Say				105.65
9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	10.00	673.00	6730.00
451	Brass screws 30 mm	100	0.60	140.00	84.00
9977	Carriage of material	Nos L.S.	3.64	2.00	7.28
	LABOUR				
0015	Carpenter 2nd class	day	1.00	374.50	374.50
	TOTAL				7195.78 W
	Add 1 % Water charges on "W"				71.96
	TOTAL				7267.74 X
	Add GST (multiplying factor 0.1405) on "X"				1021.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				8288.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				1243.33
	Total				9532.18 Z
	Add Cess @ 1% on "Z"				95.32
	Cost of 10 nos				9627.51
	Cost of 1 no				962.75
	Say				962.75
9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
7060	Hydraulic door closer tubular type Aluminium section body	each	10.00	560.00	5600.00
451	Brass screws 30 mm	100	0.60	140.00	84.00
9977	Carriage of material	Nos L.S.	1.04	2.00	2.08
	LABOUR				
0015	Carpenter 2nd class	day	1.00	374.50	374.50
	TOTAL				6060.58 W
	Add 1 % Water charges on "W"				60.61
	TOTAL				6121.19 X
	Add GST (multiplying factor 0.1405) on "X"				860.03
	TOTAL				6981.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				1047.18
	Total				8028.39 Z
	Add Cess @ 1% on "Z"				80.28
	Cost of 10 nos				8108.68
	Cost of 1 no				810.87
	Say				810.85
9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
423	Brass casement window fastener	Each	10.00	45.00	450.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
9977	Carriage of material	Nos L.S.	0.91	2.00	1.82
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				539.42 W
	Add 1 % Water charges on "W"				5.39
	TOTAL				544.81 X
	Add GST (multiplying factor 0.1405) on "X"				76.55
	TOTAL				621.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.20
	Total				714.56 Z
	Add Cess @ 1% on "Z"				7.15
	Cost of 10 nos				721.71
	Cost of 1 no				72.17
	Say				72.15
9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete :				
9.86.1	300 mm weighing not less than 330 gms				
	Details of cost for 10 nos.				
	MATERIAL				
424	Brass casement stays (straight peg type) 300 mm	each	10.00	126.00	1260.00
	weighing not less than 0.33 kg				
451	Brass screws 30 mm	100	0.40	140.00	56.00
		Nos			
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1365.42 W
	Add 1 % Water charges on "W"				13.65
	TOTAL				1379.07 X
	Add GST (multiplying factor 0.1405) on "X"				193.76
	TOTAL				1572.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				235.93
	Total				1808.76 Z
	Add Cess @ 1% on "Z"				18.09
	Cost of 10 nos				1826.85
	Cost of 1 no				182.68
	Say				182.70
9.86.2	250 mm weighing not less than 280 gms				
	Details of cost for 10 nos.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.00	100.00	1000.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
9977	Carriage of material	Nos L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1089.42 W
	Add 1 % Water charges on "W"				10.89
	TOTAL				1100.31 X
	Add GST (multiplying factor 0.1405) on "X"				154.59
	TOTAL				1254.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				188.24
	Total				1443.14 Z
	Add Cess @ 1% on "Z"				14.43
	Cost of 10 nos				1457.58
	Cost of 1 no				145.76
	Say				145.75
9.86.3	200 mm weighing not less than 240 gms				
	Details of cost for 10 nos.				
	MATERIAL				
426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.00	95.00	950.00
452	Brass screws 25 mm	100	0.40	100.00	40.00
9977	Carriage of material	Nos L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1039.42 W
	Add 1 % Water charges on "W"				10.39
	TOTAL				1049.81 X
	Add GST (multiplying factor 0.1405) on "X"				147.50
	TOTAL				1197.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				179.60
	Total				1376.91 Z
	Add Cess @ 1% on "Z"				13.77
	Cost of 10 nos				1390.68
	Cost of 1 no				139.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				139.05
9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :				
9.87.1	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
431	Brass hasps and staples (safety type) 150 mm	10 Nos	1.00	740.00	740.00
452	Brass screws 25 mm	100 Nos	0.80	100.00	80.00
9977	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				861.72 W
	Add 1 % Water charges on "W"				8.62
	TOTAL				870.34 X
	Add GST (multiplying factor 0.1405) on "X"				122.28
	TOTAL				992.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				148.89
	Total				1141.51 Z
	Add Cess @ 1% on "Z"				11.42
	Cost of 10 nos				1152.93
	Cost of 1 no				115.29
	Say				115.30
9.87.2	115 mm				
	Details of cost for 10 nos.				
	MATERIAL				
432	Brass hasps and staples (safety type) 115 mm	10 Nos	1.00	670.00	670.00
453	Brass screws 20 mm	100 Nos	0.70	95.00	66.50
9977	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				778.22 W
	Add 1 % Water charges on "W"				7.78
	TOTAL				786.00 X
	Add GST (multiplying factor 0.1405) on "X"				110.43
	TOTAL				896.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				134.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1030.90 Z
	Add Cess @ 1% on "Z"				10.31
	Cost of 10 nos				1041.21
	Cost of 1 no				104.12
	Say				104.10
9.87.3	90 mm				
	Details of cost for 10 nos.				
	MATERIAL				
433	Brass hasps and staples (safety type) 90 mm	10 Nos	1.00	575.00	575.00
453	Brass screws 20 mm	100	0.70	95.00	66.50
9977	Carriage of material	Nos L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				683.22 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				690.05 X
	Add GST (multiplying factor 0.1405) on "X"				96.95
	TOTAL				787.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.05
	Total				905.06 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 10 nos				914.11
	Cost of 1 no				91.41
	Say				91.40
9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.				
	Details of cost for one No				
	MATERIAL				
558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	470.00	470.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries (screws, carriage etc.)	L.S.	3.64	2.00	7.28
	TOTAL				558.20 W
	Add 1 % Water charges on "W"				5.58
	TOTAL				563.78 X
	Add GST (multiplying factor 0.1405) on "X"				79.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				642.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				96.45
	Total				739.44 Z
	Add Cess @ 1% on "Z"				7.39
	Cost of 1 no				746.84
	Say				746.85
9.89	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.				
	Details of cost for one No				
	MATERIAL				
583	Chromium plated Brass Night latch	each	1.00	500.00	500.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries (screws, carriage etc.)	L.S.	3.64	2.00	7.28
	TOTAL				588.20 W
	Add 1 % Water charges on "W"				5.88
	TOTAL				594.08 X
	Add GST (multiplying factor 0.1405) on "X"				83.47
	TOTAL				677.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				101.63
	Total				779.18 Z
	Add Cess @ 1% on "Z"				7.79
	Cost of 1 no				786.97
	Say				786.95
9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
9.90.1	Size 40 mm				
	Details of cost for one No				
	MATERIAL				
2468	Nickled Chromium Brass cupboard lock	each	1.00	60.00	60.00
	40 mm size LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				148.20 W
	Add 1 % Water charges on "W"				1.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				149.68 X
	Add GST (multiplying factor 0.1405) on "X"				21.03
	TOTAL				170.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.61
	Total				196.32 Z
	Add Cess @ 1% on "Z"				1.96
	Cost of 1 no				198.28
	Say				198.30
9.90.2	Size 50 mm				
	Details of cost for one No				
	MATERIAL				
2469	Nickled Chromium Brass cupboard lock	each	1.00	70.00	70.00
	50 mm size LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				158.20 W
	Add 1 % Water charges on "W"				1.58
	TOTAL				159.78 X
	Add GST (multiplying factor 0.1405) on "X"				22.45
	TOTAL				182.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.33
	Total				209.57 Z
	Add Cess @ 1% on "Z"				2.10
	Cost of 1 no				211.66
	Say				211.65
9.90.3	Size 65 mm				
	Details of cost for one No				
	MATERIAL				
2470	Nickled Chromium Brass cupboard lock	each	1.00	95.00	95.00
	65 mm size				
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				183.20 W
	Add 1 % Water charges on "W"				1.83
	TOTAL				185.03 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				26.00
	TOTAL				211.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.65
	Total				242.68 Z
	Add Cess @ 1% on "Z"				2.43
	Cost of 1 no				245.11
	Say				245.10
9.90.4	Size 75 mm				
	Details of cost for one				
	MATERIAL				
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	1.00	120.00	120.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundries & screws	L.S.	3.64	2.00	7.28
	TOTAL				208.20 W
	Add 1 % Water charges on "W"				2.08
	TOTAL				210.28 X
	Add GST (multiplying factor 0.1405) on "X"				29.54
	TOTAL				239.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.97
	Total				275.80 Z
	Add Cess @ 1% on "Z"				2.76
	Cost of 1 no				278.56
	Say				278.55
9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.				
	Details of cost for 10 nos.				
	MATERIAL				
584	Chromium plated Brass Wardrobe Knobe 50 mm	each	10.00	80.00	800.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
	TOTAL				872.10 W
	Add 1 % Water charges on "W"				8.72
	TOTAL				880.82 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				123.76
	TOTAL				1004.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				150.69
	Total				1155.26 Z
	Add Cess @ 1% on "Z"				11.55
	Cost of 10 nos				1166.82
	Cost of 1 no				116.68
	Say				116.70
9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:				
9.92.1	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	10.00	160.00	1600.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1674.02 W
	Add 1 % Water charges on "W"				16.74
	TOTAL				1690.76 X
	Add GST (multiplying factor 0.1405) on "X"				237.55
	TOTAL				1928.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				289.25
	Total				2217.56 Z
	Add Cess @ 1% on "Z"				22.18
	Cost of 10 nos				2239.73
	Cost of 1 no				223.97
	Say				223.95
9.92.2	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	10.00	140.00	1400.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material LABOUR	L.S.	0.91	2.00	1.82
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1470.38 W
	Add 1 % Water charges on "W"				14.70
	TOTAL				1485.08 X
	Add GST (multiplying factor 0.1405) on "X"				208.65
	TOTAL				1693.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				254.06
	Total				1947.80 Z
	Add Cess @ 1% on "Z"				19.48
	Cost of 10 nos				1967.28
	Cost of 1 no				196.73
	Say				196.75
9.92.3	75 mm				
	Details of cost for 10 nos.				
	MATERIAL				
557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	10.00	125.00	1250.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material LABOUR	L.S.	0.91	2.00	1.82
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				1320.38 W
	Add 1 % Water charges on "W"				13.20
	TOTAL				1333.58 X
	Add GST (multiplying factor 0.1405) on "X"				187.37
	TOTAL				1520.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				228.14
	Total				1749.10 Z
	Add Cess @ 1% on "Z"				17.49
	Cost of 10 nos				1766.59
	Cost of 1 no				176.66
	Say				176.65
9.93	Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.				
	Details of cost for 10 nos.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
568	Chromium plated brass casement window fastner	each	10.00	90.00	900.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1021.42 W
	Add 1 % Water charges on "W"				10.21
	TOTAL				1031.63 X
	Add GST (multiplying factor 0.1405) on "X"				144.94
	TOTAL				1176.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				176.49
	Total				1353.07 Z
	Add Cess @ 1% on "Z"				13.53
	Cost of 10 nos				1366.60
	Cost of 1 no				136.66
	Say				136.65
9.94	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :				
9.94.1	300 mm weighing not less than 330 gms				
	Details of cost for 10 nos.				
	MATERIAL				
569	Chromium plated Brass casement stays (straight peg type) 300 mmweighing not less than 0.33 kg	each	10.00	140.00	1400.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1521.42 W
	Add 1 % Water charges on "W"				15.21
	TOTAL				1536.63 X
	Add GST (multiplying factor 0.1405) on "X"				215.90
	TOTAL				1752.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				262.88
	Total				2015.41 Z
	Add Cess @ 1% on "Z"				20.15
	Cost of 10 nos				2035.57
	Cost of 1 no				203.56
	Say				203.55
9.94.2	250 mm weighing not less than 280 gms				
	Details of cost for 10 nos.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
570	Chromium plated Brass casement stays (straight peg type) 250 mmweighing not less than 0.28 kg	each	10.00	120.00	1200.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1321.42 W
	Add 1 % Water charges on "W"				13.21
	TOTAL				1334.63 X
	Add GST (multiplying factor 0.1405) on "X"				187.52
	TOTAL				1522.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				228.32
	Total				1750.47 Z
	Add Cess @ 1% on "Z"				17.50
	Cost of 10 nos				1767.98
	Cost of 1 no				176.80
	Say				176.80
9.94.3	200 mm weighing not less than 240 gms				
	Details of cost for 10 nos.				
	MATERIAL				
571	Chromium plated Brass casement stays (straight peg type) 200 mmweighing not less than 0.24 kg	each	10.00	100.00	1000.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1121.42 W
	Add 1 % Water charges on "W"				11.21
	TOTAL				1132.63 X
	Add GST (multiplying factor 0.1405) on "X"				159.14
	TOTAL				1291.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				193.77
	Total				1485.53 Z
	Add Cess @ 1% on "Z"				14.86
	Cost of 10 nos				1500.39
	Cost of 1 no				150.04
	Say				150.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.95	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
9.95.1	125x75x4 mm				
	Details of cost for 10 nos.				
	MATERIAL				
687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	1.00	560.00	560.00
585	Chromium plated Brass screws 50 mm	100 Nos	1.00	300.00	300.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				962.79 W
	Add 1 % Water charges on "W"				9.63
	TOTAL				972.42 X
	Add GST (multiplying factor 0.1405) on "X"				136.63
	TOTAL				1109.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.36
	Total				1275.41 Z
	Add Cess @ 1% on "Z"				12.75
	Cost of 10 nos				1288.16
	Cost of 1 no				128.82
	Say				128.80
9.95.2	125x63x4 mm				
	Details of cost for 10 nos.				
	MATERIAL				
688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	1.00	393.00	393.00
585	Chromium plated Brass screws 50 mm	100 Nos	1.00	300.00	300.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				795.79 W
	Add 1 % Water charges on "W"				7.96
	TOTAL				803.75 X
	Add GST (multiplying factor 0.1405) on "X"				112.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				916.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				137.50
	Total				1054.18 Z
	Add Cess @ 1% on "Z"				10.54
	Cost of 10 nos				1064.72
	Cost of 1 no				106.47
	Say				106.45
9.95.3	100x75x4 mm				
	Details of cost for 10 nos.				
	MATERIAL				
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	1.00	393.00	393.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.80	290.00	232.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				725.97 W
	Add 1 % Water charges on "W"				7.26
	TOTAL				733.23 X
	Add GST (multiplying factor 0.1405) on "X"				103.02
	TOTAL				836.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				125.44
	Total				961.69 Z
	Add Cess @ 1% on "Z"				9.62
	Cost of 10 nos				971.31
	Cost of 1 no				97.13
	Say				97.15
9.95.4	100x63x4 mm				
	Details of cost for 10 nos.				
	MATERIAL				
691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	1.00	324.00	324.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.80	290.00	232.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				656.97 W
	Add 1 % Water charges on "W"				6.57
	TOTAL				663.54 X
	Add GST (multiplying factor 0.1405) on "X"				93.23
	TOTAL				756.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				113.52
	Total				870.29 Z
	Add Cess @ 1% on "Z"				8.70
	Cost of 10 nos				878.99
	Cost of 1 no				87.90
	Say				87.90
9.95.5	100x63x3.2 mm				
	Details of cost for 10 nos.				
	MATERIAL				
690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	1.00	270.00	270.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.80	290.00	232.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				602.97 W
	Add 1 % Water charges on "W"				6.03
	TOTAL				609.00 X
	Add GST (multiplying factor 0.1405) on "X"				85.57
	TOTAL				694.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				104.19
	Total				798.76 Z
	Add Cess @ 1% on "Z"				7.99
	Cost of 10 nos				806.74
	Cost of 1 no				80.67
	Say				80.65

9.95.6 75x63x4 mm

Details of cost for 10 nos.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	1.00	275.00	275.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				518.15 W
	Add 1 % Water charges on "W"				5.18
	TOTAL				523.34 X
	Add GST (multiplying factor 0.1405) on "X"				73.53
	TOTAL				596.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				89.53
	Total				686.39 Z
	Add Cess @ 1% on "Z"				6.86
	Cost of 10 nos				693.26
	Cost of 1 no				69.33
	Say				69.35
9.95.7	75x63x3.2 mm				
	Details of cost for 10 nos.				
	MATERIAL				
693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	1.00	226.00	226.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				469.15 W
	Add 1 % Water charges on "W"				4.69
	TOTAL				473.85 X
	Add GST (multiplying factor 0.1405) on "X"				66.58
	TOTAL				540.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				81.06
	Total				621.48 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				6.21
	Cost of 10 nos				627.70
	Cost of 1 no				62.77
	Say				62.75
9.95.8	75x45x3.2 mm				
	Details of cost for 10 nos.				
	MATERIAL				
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	1.00	196.00	196.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				439.15 W
	Add 1 % Water charges on "W"				4.39
	TOTAL				443.55 X
	Add GST (multiplying factor 0.1405) on "X"				62.32
	TOTAL				505.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.88
	Total				581.74 Z
	Add Cess @ 1% on "Z"				5.82
	Cost of 10 nos				587.56
	Cost of 1 no				58.76
	Say				58.75
9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
9.96.1	300x16 mm				
	Details of cost for 10 nos.				
	MATERIAL				
696	Anodised Aluminium sliding door bolt 300x16 mm	each	10.00	147.00	1470.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	5.46	2.00	10.92
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
	TOTAL				1790.92 W
	Add 1 % Water charges on "W"				17.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1808.83 X
	Add GST (multiplying factor 0.1405) on "X"				254.14
	TOTAL				2062.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				309.45
	Total				2372.42 Z
	Add Cess @ 1% on "Z"				23.72
	Cost of 10 nos				2396.14
	Cost of 1 no				239.61
	Say				239.60
9.96.2	250x16 mm				
	Details of cost for 10 nos.				
	MATERIAL				
697	Anodised Aluminium sliding door bolt 250x16 mm	each	10.00	128.000	1280.00
588	Chromium plated Brass screws 25 mm	100	0.40	180.000	72.00
9977	Carriage of materials	Nos L.S.	5.46	2.000	10.92
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.000	238.00
	TOTAL				1600.92 W
	Add 1 % Water charges on "W"				16.01
	TOTAL				1616.93 X
	Add GST (multiplying factor 0.1405) on "X"				227.18
	TOTAL				1844.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				276.62
	Total				2120.72 Z
	Add Cess @ 1% on "Z"				21.21
	Cost of 10 nos				2141.93
	Cost of 1 no				214.19
	Say				214.20
9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
9.97.1	300x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
698	Anodised Aluminium tower bolt (barrel type)300x10 mm	10 Nos	1.00	580.00	580.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.80	240.00	192.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	4.42	2.00	8.84
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	TOTAL				840.34 W
	Add 1 % Water charges on "W"				8.40
	TOTAL				848.74 X
	Add GST (multiplying factor 0.1405) on "X"				119.25
	TOTAL				967.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.20
	Total				1113.19 Z
	Add Cess @ 1% on "Z"				11.13
	Cost of 10 nos				1124.32
	Cost of 1 no				112.43
	Say				112.45
9.97.2	250x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
699	Anodised Aluminium tower bolt (barrel type)250x10 mm	10 Nos	1.00	481.00	481.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.80	240.00	192.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	TOTAL				741.34 W
	Add 1 % Water charges on "W"				7.41
	TOTAL				748.75 X
	Add GST (multiplying factor 0.1405) on "X"				105.20
	TOTAL				853.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				128.09
	Total				982.05 Z
	Add Cess @ 1% on "Z"				9.82
	Cost of 10 nos				991.87
	Cost of 1 no				99.19
	Say				99.20
9.97.3	200x10 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL				
700	Anodised Aluminium tower bolt (barrel type)200x10 mm	10 Nos	1.000	383.00	383.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.800	240.00	192.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	TOTAL				639.96 W
	Add 1 % Water charges on "W"				6.40
	TOTAL				646.36 X
	Add GST (multiplying factor 0.1405) on "X"				90.81
	TOTAL				737.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.58
	Total				847.75 Z
	Add Cess @ 1% on "Z"				8.48
	Cost of 10 nos				856.23
	Cost of 1 no				85.62
	Say				85.60
9.97.4	150x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
701	Anodised Aluminium tower bolt (barrel type)150x10 mm	10 Nos	1.00	304.00	304.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.80	240.00	192.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				539.54 W
	Add 1 % Water charges on "W"				5.40
	TOTAL				544.94 X
	Add GST (multiplying factor 0.1405) on "X"				76.56
	TOTAL				621.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.22
	Total				714.72 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				7.15
	Cost of 10 nos				721.87
	Cost of 1 no				72.19
	Say				72.20
9.97.5	100x10 mm				
	Details of cost for 10 nos.				
	MATERIAL				
702	Anodised Aluminium tower bolt (barrel type)100x10 mm	10 Nos	1.00	226.00	226.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				413.54 W
	Add 1 % Water charges on "W"				4.14
	TOTAL				417.68 X
	Add GST (multiplying factor 0.1405) on "X"				58.68
	TOTAL				476.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.45
	Total				547.81 Z
	Add Cess @ 1% on "Z"				5.48
	Cost of 10 nos				553.29
	Cost of 1 no				55.33
	Say				55.35
9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.				
	Details of cost for 10 pull bolt lock				
	MATERIAL				
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws,bolts,nuts and washers complete	each	10.00	46.00	460.00
9977	Carriage of materials	L.S.	6.37	2.00	12.74
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
	TOTAL				566.37 W
	Add 1 % Water charges on "W"				5.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				572.03 X
	Add GST (multiplying factor 0.1405) on "X"				80.37
	TOTAL				652.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				97.86
	Total				750.26 Z
	Add Cess @ 1% on "Z"				7.50
	Cost of 10 nos				757.76
	Cost of 1 no				75.78
	Say				75.80
9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	10.00	142.00	1420.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	5.46	2.00	10.92
	LABOUR				
0014	Carpenter 1st class	day	0.07	476.00	33.32
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				1552.28 W
	Add 1 % Water charges on "W"				15.52
	TOTAL				1567.80 X
	Add GST (multiplying factor 0.1405) on "X"				220.28
	TOTAL				1788.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				268.21
	Total				2056.29 Z
	Add Cess @ 1% on "Z"				20.56
	Cost of 10 nos				2076.86
	Cost of 1 no				207.69
	Say				207.70
9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
9.100.1	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	1.00	324.00	324.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				430.02 W
	Add 1 % Water charges on "W"				4.30
	TOTAL				434.32 X
	Add GST (multiplying factor 0.1405) on "X"				61.02
	TOTAL				495.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.30
	Total				569.64 Z
	Add Cess @ 1% on "Z"				5.70
	Cost of 10 nos				575.34
	Cost of 1 no				57.53
	Say				57.55
9.100.2	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	1.00	275.00	275.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				379.20 W
	Add 1 % Water charges on "W"				3.79
	TOTAL				382.99 X
	Add GST (multiplying factor 0.1405) on "X"				53.81
	TOTAL				436.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.52
	Total				502.32 Z
	Add Cess @ 1% on "Z"				5.02
	Cost of 10 nos				507.35
	Cost of 1 no				50.73
	Say				50.75
9.100.3	75 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL				
705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	1.00	231.00	231.00
589	Chromium plated Brass screws 20 mm	100 Nos	0.40	160.00	64.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				327.20 W
	Add 1 % Water charges on "W"				3.27
	TOTAL				330.47 X
	Add GST (multiplying factor 0.1405) on "X"				46.43
	TOTAL				376.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.54
	Total				433.44 Z
	Add Cess @ 1% on "Z"				4.33
	Cost of 10 nos				437.77
	Cost of 1 no				43.78
	Say				43.80
9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
9.101.1	Single rubber stopper				
	Details of cost for 10 nos.				
	MATERIAL				
2459	Anodised Aluminium hanging type door stopper	each	10.00	19.00	190.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.20	180.00	36.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.03	476.00	14.28
	TOTAL				245.74 W
	Add 1 % Water charges on "W"				2.46
	TOTAL				248.20 X
	Add GST (multiplying factor 0.1405) on "X"				34.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				283.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.46
	Total				325.53 Z
	Add Cess @ 1% on "Z"				3.26
	Cost of 10 nos				328.78
	Cost of 1 no				32.88
	Say				32.90
9.101.2	Twin rubber stopper				
	Details of cost for 10 nos.				
	MATERIAL				
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	10.00	40.00	400.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.20	180.00	36.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.03	476.00	14.28
	TOTAL				455.74 W
	Add 1 % Water charges on "W"				4.56
	TOTAL				460.30 X
	Add GST (multiplying factor 0.1405) on "X"				64.67
	TOTAL				524.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.75
	Total				603.71 Z
	Add Cess @ 1% on "Z"				6.04
	Cost of 10 nos				609.75
	Cost of 1 no				60.98
	Say				61.00
9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
2465	Anodised Aluminium Casement stay 250 mm	each	10.00	32.00	320.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.40	180.00	72.00
9977	Carriage of materials	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				441.42 W
	Add 1 % Water charges on "W"				4.41
	TOTAL				445.83 X
	Add GST (multiplying factor 0.1405) on "X"				62.64
	TOTAL				508.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.27
	Total				584.74 Z
	Add Cess @ 1% on "Z"				5.85
	Cost of 10 nos				590.59
	Cost of 1 no				59.06
	Say				59.05
9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.				
	Details of cost for 1 lock				
	MATERIAL				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.00	210.00	210.00
7003	Pair of Anodised Aluminium lever handles for 100mm mortice latch and lock	each	1.00	215.00	215.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9988	Sundries including carriage of materials	L.S.	4.55	2.00	9.10
	TOTAL				515.02 W
	Add 1 % Water charges on "W"				5.15
	TOTAL				520.17 X
	Add GST (multiplying factor 0.1405) on "X"				73.08
	TOTAL				593.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				88.99
	Total				682.24 Z
	Add Cess @ 1% on "Z"				6.82
	Cost of 1 lock				689.06
	Say				689.05
9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.				
	Details of cost for 2m long				
	MATERIAL				
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	2.00	100.00	200.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	LABOUR	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				208.32 W
	Add 1 % Water charges on "W"				2.08
	TOTAL				210.40 X
	Add GST (multiplying factor 0.1405) on "X"				29.56
	TOTAL				239.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.99
	Total				275.96 Z
	Add Cess @ 1% on "Z"				2.76
	Cost of 2 metre				278.72
	Cost of 1 metre				139.36
	Say				139.35

9.105 Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/ sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.

9.105.1 75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00x3.65m = 21.9 sqm (Partition Panel) MATERIAL				
7366	Glass reinforced Gyp sum (GRG) board 8.5 mm thick 2x6.00x3.65=43.80sqm	sqm	43.80	240.00	10512.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	57.00	684.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	71.00	2850.65
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	3.92	58.00	227.36
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	11.00	242.00
7048	Rawl plug 50 mm (designation 10 no.) [(3.65/0.45)+1]x2= 18	each	18.00	25.00	450.00
869	Plaster of Paris (88/100)x21.9 = 19.27	kilogra m	19.27	5.00	96.35
763	Glue (22/100)x21.90=4.82	kilogra m	4.82	75.00	361.50
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	100.00	58.40
7021	Primer (for gypsum board) (36/100)x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	4.4	38.00	167.20
1211	G.I. plain washer for seam bolts	100 Nos	0.44	32.00	14.08
9977	Sundries carriage	L.S.	52.00	2.00	104.00
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.00	2.00	260.00
0014	Carpenter 1st class 0.3x21.90=6.57	day	6.57	476.00	3127.32
0015	Carpenter 2nd class 0.13x21.90=2.847	day	2.847	374.50	1066.20
0031	Painter 0.05x21.90=1.095	day	1.095	374.50	410.08
0017	Beldar 0.35x21.90=7.665	day	7.665	320.83	2459.16
	TOTAL				23760.10 W
	Add 1 % Water charges on "W"				237.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				23997.70 X
	Add GST (multiplying factor 0.1405) on "X"				3371.68
	TOTAL				27369.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				4105.41
	Total				31474.79 Z
	Add Cess @ 1% on "Z"				314.75
	Cost for 21.90 sqm				31789.53
	Cost for 1 sqm.				1451.58
	Say				1451.60
9.105.2	75mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster board conforming to IS: 2095: (part I) 2011 (Board with BIS Certification marks)				
	Details of cost for 6.00x3.65m = 21.9 sqm (Partition Panel)				
	MATERIAL				
7009	12.5 mm thick tapered edge plain gypsum plaster board conforming to IS 2095 (Part I) : 2011. 2x6.00x3.65=43.80sqm	sqm	43.80	155.00	6789.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	57.00	684.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	71.00	2850.65
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	3.92	58.00	227.36
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	11.00	242.00
7048	Rawl plug 50 mm (designation 10 no.) [(3.65/0.45)+1]x2= 18	each	18.00	25.00	450.00
869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	5.00	96.35
763	Glue (22/100)x21.90=4.82	kilogram	4.82	75.00	361.50
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	100.00	58.40
7021	Primer (for gypsum board) (36/100)x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots 11x2x2=44	10 Nos	4.40	38.00	167.20
1211	G.I. plain washer for seam bolts	100 Nos	0.44	32.00	14.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Sundries carriage	L.S.	52.00	2.00	104.00
9999	Sundries scaffolding	L.S.	130	2.00	260.00
	Labour for 21.90 sqm.				0.00
0014	Carpenter 1st class 0.3x21.90=6.57	day	6.57	476.00	3127.32
0015	Carpenter 2nd class 0.13x21.90=2.847	day	2.847	374.50	1066.20
0031	Painter 0.05x21.90=1.095	day	1.095	374.50	410.08
0017	Beldar 0.35x21.90=7.665	day	7.665	320.83	2459.16
	TOTAL				20037.10 W
	Add 1 % Water charges on "W"				200.37
	TOTAL				20237.47 X
	Add GST (multiplying factor 0.1405) on "X"				2843.36
	TOTAL				23080.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				3462.13
	Total				26542.96 Z
	Add Cess @ 1% on "Z"				265.43
	Cost for 21.90 sqm				26808.39
	Cost for 1 sqm.				1224.13
	Say				1224.15
9.105.3	66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg./ sq.cm Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel) MATERIAL				
8699	8 mm thick tapered edge calcium silicate board . 2x6.00x3.65=43.80sqm	sqm	43.80	265.00	11607.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	57.00	684.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm 48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	71.00	2850.65
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	3.92	58.00	227.36
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	22.00	11.00	242.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	[(6.00/0.61)+1]x2=22				
7048	Rawl plug 50 mm (designation 10 no.)	each	18.00	25.00	450.00
869	[(3.65/0.45)+1]x2= 18 Plaster of Paris	kilogram	19.27	5.00	96.35
	(88/100)x21.9 = 19.27				
763	Glue	kilogram	4.82	75.00	361.50
	(22/100)x21.90=4.82				0.00
7018	Joint tape roll	roll	0.584	100.00	58.40
	(120m roll) (300/100)x21.90/120 = 0.584 Nos				
7021	Primer (for gypsum board) (36/100)x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots 11x2x2=44	10 Nos	4.40	38.00	167.20
1211	G.I. plain washer for seam bolts	100 Nos	0.44	32.00	14.08
9977	Sundries carriage	L.S.	52.00	2.00	104.00
9999	Sundries scaffolding	L.S.	130	2.00	260.00
	Labour for 21.90 sqm.				
0014	Carpenter 1st class	day	6.57	476.00	3127.32
	0.3x21.90=6.57				
0015	Carpenter 2nd class	day	2.847	374.50	1066.20
	0.13x21.90=2.847				
0031	Painter	day	1.095	374.50	410.08
	0.05x21.90=1.095				
0017	Beldar	day	7.665	320.83	2459.16
	0.35x21.90=7.665				24855.10 W
	TOTAL				
	Add 1 % Water charges on "W"				248.55
	TOTAL				25103.65 X
	Add GST (multiplying factor 0.1405) on "X"				3527.06
	TOTAL				28630.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				4294.61
	Total				32925.32 Z
	Add Cess @ 1% on "Z"				329.25
	Cost for 21.90 sqm				33254.58
	Cost for 1 sqm.				1518.47
	Say				1518.45
9.105.4	66mm overall thickness partition using 8mm thick double skin multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS : 14862 with suitable fibre cement screws				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel) MATERIAL				
237	Multi purpose fibre (high impact poly propylene reinforced) cement board 8mm thick. 2x6.00x3.65=43.80sqm	sqm	43.80	220.00	9636.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 50mm floor and ceiling channel 2x6.00 =12m	metre	12.00	57.00	684.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm 48mm stud-72x34x36x0.5mm	metre	40.15	71.00	2850.65
7020	(6.00/0.61)+1 = 11x3.65 = 40.15m All drive screws (for gypsum board) [(3.65/0.30)+1]x1x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	3.92	58.00	227.36
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	11.00	242.00
7048	Rawl plug 50 mm (designation 10 no.) [(3.65/0.45)+1]x2= 18	each	18.00	25.00	450.00
869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	5.00	96.35
763	Glue (22/100)x21.90=4.82	kilogram	4.82	75.00	361.50
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	100.00	58.40
7021	Primer (for gypsum board) (36/100)x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	4.40	38.00	167.20
1211	G.I. plain washer for seam bolts	100 Nos	0.44	32.00	14.08
9977	Sundries carriage	L.S.	52.00	2.00	104.00
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.00	2.00	260.00
0014	Carpenter 1st class 0.3x21.90=6.57	day	6.57	476.00	3127.32
0015	Carpenter 2nd class 0.13x21.90=2.847	day	2.847	374.50	1066.20
0031	Painter 0.05x21.90=1.095	day	1.095	374.50	410.08
0017	Beldar 0.35x21.90=7.665	day	7.665	320.83	2459.16
	TOTAL				<u>22884.10 W</u>

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				228.84
	TOTAL				23112.94 X
	Add GST (multiplying factor 0.1405) on "X"				3247.37
	TOTAL				26360.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				3954.05
	Total				30314.36 Z
	Add Cess @ 1% on "Z"				303.14
	Cost for 21.90 sqm				30617.50
	Cost for 1 sqm.				1398.06
	Say				1398.05
9.105.5	66 mm overall thickness partition using 8 mm thick double skin multipurpose cement bonded wood particle board manufactured as per IS: 14276 with suitable cement bonded board screws				
	Details of cost for 21.90 sqm				
	MATERIAL:				
243	Multipurpose cement bonded wood particle board 8 mm thick	sqm	43.80	215.00	9417.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 =12m	metre	12.00	57.00	684.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	71.00	2850.65
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 nos	3.92	58.00	227.36
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	11.00	242.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	25.00	450.00
869	Plaster of Paris (88/100)x21.9 = 19.27	kg	19.27	5.00	96.35
763	Glue (22/100)x21.90=4.82	kg	4.82	75.00	361.50
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 No	roll	0.584	100.00	58.40
7021	Primer (for gypsum board (36/100x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44 nos=4.40 tens	10 Nos	4.40	38.00	167.20
1211	G.I. plain washer for seam bolts =0.44 hundreds	100 Nos	0.44	32.00	14.08
9999	Sundries carriage	L.S	52.00	2.00	104.00
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S	130.00	2.00	260.00
0014	Carpenter 1 st class 0.3x21.90	day	6.57	476.00	3127.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0015	Carpenter 2nd class 0.13x21.90	day	2.847	374.50	1066.20
0031	Painter 0.05x21.90	day	1.095	374.50	410.08
0017	Beldar 0.35x21.90	day	7.665	320.83	2459.16
	TOTAL				22665.10 W
	Add 1 % Water charges on "W"				226.65
	TOTAL				22891.75 X
	Add GST (multiplying factor 0.1405) on "X"				3216.29
	TOTAL				26108.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				3916.21
	Total				30024.25 Z
	Add Cess @ 1% on "Z"				300.24
	Cost for 21.90 sqm				30324.49
	Cost for 1 sqm.				1384.68
	Say				1384.70
9.106	Providing and fixing PTMT handles with necessary screws etc. complete.				
9.106.1	125x34x24 mm weighing not less than 23 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7512	PTMT handle 125x34x24mm	each	10.00	24.000	240.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.40	36.000	14.40
9977	Carriage of materials	L.S.	2.73	2.000	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.06	374.500	22.47
	TOTAL				282.33 W
	Add 1 % Water charges on "W"				2.82
	TOTAL				285.15 X
	Add GST (multiplying factor 0.1405) on "X"				40.06
	TOTAL				325.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.78
	Total				374.00 Z
	Add Cess @ 1% on "Z"				3.74
	Cost of 10 Nos				377.74
	Cost of 1 No				37.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				37.75
9.106.2	150x34x24 mm weighing not less than 26 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7513	PTMT handle 150x34x24mm	each	10.00	24.00	240.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.40	36.00	14.40
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.06	374.50	22.47
	TOTAL				282.33 W
	Add 1 % Water charges on "W"				2.82
	TOTAL				285.15 X
	Add GST (multiplying factor 0.1405) on "X"				40.06
	TOTAL				325.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.78
	Total				374.00 Z
	Add Cess @ 1% on "Z"				3.74
	Cost of 10 Nos				377.74
	Cost of 1 No				37.77
	Say				37.75
9.107	Providing and fixing PTMT Butt hinges with necessary screws etc. complete.				
9.107.1	75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7514	PTMT butt hinges 75x60x10mm	each	10.00	33.00	330.00
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.60	45.00	27.00
9977	Carriage of materials	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				441.94 W
	Add 1 % Water charges on "W"				4.42
	TOTAL				446.36 X
	Add GST (multiplying factor 0.1405) on "X"				62.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				509.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.36
	Total				585.44 Z
	Add Cess @ 1% on "Z"				5.85
	Cost of 10 Nos				591.29
	Cost of 1 No				59.13
	Say				59.15
9.107.2	100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7515	PTMT butt hinges 100x75x10mm	each	10.00	43.00	430.00
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.80	60.00	48.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				564.76 W
	Add 1 % Water charges on "W"				5.65
	TOTAL				570.41 X
	Add GST (multiplying factor 0.1405) on "X"				80.14
	TOTAL				650.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				97.58
	Total				748.14 Z
	Add Cess @ 1% on "Z"				7.48
	Cost of 10 Nos				755.62
	Cost of 1 No				75.56
	Say				75.55
9.108	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.				
9.108.1	152x42x18 mm weighing not less than 60 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7516	PTMT Tower bolt 152x42x18mm	each	10.00	48.00	480.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.60	45.00	27.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
	TOTAL				542.42 W
	Add 1 % Water charges on "W"				5.42
	TOTAL				547.84 X
	Add GST (multiplying factor 0.1405) on "X"				76.97
	TOTAL				624.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.72
	Total				718.54 Z
	Add Cess @ 1% on "Z"				7.19
	Cost of 10 Nos				725.72
	Cost of 1 No				72.57
	Say				72.55
9.108.2	202x42x18 mm weighing not less than 78 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7517	PTMT Tower bolt 202x42x18mm	each	10.00	67.00	670.00
638	Bright finished or black enamelled mild steel screws 30 mm	100 Nos	0.80	45.00	36.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
	TOTAL				748.91 W
	Add 1 % Water charges on "W"				7.49
	TOTAL				756.40 X
	Add GST (multiplying factor 0.1405) on "X"				106.27
	TOTAL				862.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				129.40
	Total				992.07 Z
	Add Cess @ 1% on "Z"				9.92
	Cost of 10 Nos				1001.99
	Cost of 1 No				100.20
	Say				100.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.109	Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms				
	Details of cost for ten Nos.				
	MATERIAL				
7518	PTMT door catcher 72x42mm	each	10.00	24.00	240.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	0.20	36.00	7.20
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.03	476.00	14.28
	TOTAL				266.94 W
	Add 1 % Water charges on "W"				2.67
	TOTAL				269.61 X
	Add GST (multiplying factor 0.1405) on "X"				37.88
	TOTAL				307.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				46.12
	Total				353.61 Z
	Add Cess @ 1% on "Z"				3.54
	Cost of 10 Nos				357.15
	Cost of 1 No				35.71
	Say				35.70
9.110	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support complete as per direction of Engineer-in-charge.				
	Details of cost for a bamboo jaffery of size				
	1.00m x 2.10m = 2.10 sqm				
	MATERIAL				
	Bamboo 25mm of 100/ 2.50 = 40 nos				
	Half cut off = 40/2 = 20 nos. x 2.10 = 42.00m				
	Add wastage @ 15% = 6.30 m				
	Total = 48.30m				
	Rate of Bamboo 25 mm dia 2.5 metre long for one score i.e. 20nos is Rs. 192 for 48.30m qty 48.30 / (2.5 * 20) = 0.966				
305	Bamboo 25 mm dia 2.5 metre long	score	0.966	400.00	386.40
9977	Carriage of Bamboo	L.S.	4.83	2.00	9.66
2466	Hollock wood in scantling	10 cudm	0.394	350.00	137.90
	3 nos. (1.00 x 0.05 x 0.05) = 0.00375 cm				
	Add wastage @ 5% = 0.00019 cm				
	Total = 0.00394 cm or 3.94 cudm				
2204	Carriage of Timber	cum	0.00394	121.29	0.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Nails and wire	L.S.	20.25	2.00	40.50
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	10.05	2.00	20.10
	TOTAL				768.87 W
	Add 1 % Water charges on "W"				7.69
	TOTAL				776.56 X
	Add GST (multiplying factor 0.1405) on "X"				109.11
	TOTAL				885.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				132.85
	Total				1018.52 Z
	Add Cess @ 1% on "Z"				10.19
	Cost for 2.10 sqm				1028.70
	Cost for 1 sqm				489.86
	Say				489.85
9.111	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.				
9.111.1	50x50 mm (base and height)				
	Details of cost for beading = 5.00 m				
	MATERIAL				
	Teak wood 2nd class in plan ks				
	500 x 5 x 5 mm / 2 = 0.000625 cum Add wastage				
	@ 10% = 0.00063 total = 0.00688 cum say 6.88				
	cudm				
1190	Second class teak wood in planks	10 cudm	0.688	791.00	544.21
2204	Carriage of Timber	cum	0.00688	121.29	0.83
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.06	60.00	3.60
	Priming coat				
	Area 5.0 x (.05 +.05) = 0.50 sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	0.50	38.95	19.48 A
	LABOUR				
	For plaining, fixing & making design				
0014	Carpenter 1st class	day	0.75	476.00	357.00
	TOTAL				925.12 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"		905.64		9.06
	TOTAL				934.18 X
	Add GST (multiplying factor 0.1405) on "X-A"		914.70		128.52
	TOTAL				1062.69 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1043.21		156.48
	Total				1219.17 Z
	Add Cess @ 1% on "Z-A"		1199.70		12.00
	Cost for 5 metre				1231.17
	Cost for 1 metre				246.23
	Say				246.25
9.112	Providing and fixing 2nd class teak wood lipping/ moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws/ nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-charge.				
	Details of cost for 10.00 m				
	MATERIAL				
8719	2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5mm	metre	10.00	28.00	280.00
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				453.83 W
	Add 1 % Water charges on "W"				4.54
	TOTAL				458.37 X
	Add GST (multiplying factor 0.1405) on "X"				64.40
	TOTAL				522.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.42
	Total				601.19 Z
	Add Cess @ 1% on "Z"				6.01
	Cost for 10 metre				607.20
	Cost for 1 metre				60.72
	Say				60.70
9.113	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.				
	Details of cost for 1 no.				
8716	100 mm mortice lock with 6 levers for aluminium door.	each	1.00	375.00	375.00
	LABOUR				
0014	Carpenter 1st class	day	0.13	476.00	61.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries(screws, carriage etc)	L.S.	2.60	2.00	5.20
	TOTAL				442.08 W
	Add 1 % Water charges on "W"				4.42
	TOTAL				446.50 X
	Add GST (multiplying factor 0.1405) on "X"				62.73
	TOTAL				509.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.39
	Total				585.62 Z
	Add Cess @ 1% on "Z"				5.86
	Cost for 1 no				591.48
	Say				591.50
9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.				
9.114.1	Triple strip vertical type				
	Details of cost for 1 no.				
	MATERIAL				
8714	Magenatic catcher triple strip verticle type.	each	1.00	24.00	24.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	2.00	5.20
	TOTAL				29.20 W
	Add 1 % Water charges on "W"				0.29
	TOTAL				29.49 X
	Add GST (multiplying factor 0.1405) on "X"				4.14
	TOTAL				33.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.05
	Total				38.68 Z
	Add Cess @ 1% on "Z"				0.39
	Cost for 1 no				39.07
	Say				39.05
9.114.2	Double strip (horizontal type)				
	Details of cost for 1 no.				
	MATERIAL				
8715	Magenatic catcher double strip horizontal type.	each	1.00	18.00	18.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	2.00	5.20
	TOTAL				23.20 W
	Add 1 % Water charges on "W"				0.23
	TOTAL				23.43 X
	Add GST (multiplying factor 0.1405) on "X"				3.29
	TOTAL				26.72 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				4.01
	Total				30.73 Z
	Add Cess @ 1% on "Z"				0.31
	Cost for 1 no				31.04
	Say				31.05
9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer- in-charge.				
	Details of cost for 10 sets.				
	MATERIAL				
8703	Telescopic drawer channels 300mm long .	set	10.00	230.00	2300.00
9977	CARRIAGE	L.S.	19.50	2.00	39.00
9999	Sundries including screws and fixing charges.	L.S.	100.10	2.00	200.20
	TOTAL				2539.20 W
	Add 1 % Water charges on "W"				25.39
	TOTAL				2564.59 X
	Add GST (multiplying factor 0.1405) on "X"				360.33
	TOTAL				2924.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				438.74
	Total				3363.65 Z
	Add Cess @ 1% on "Z"				33.64
	Cost for 10 sets				3397.29
	Cost for 1 set				339.73
	Say				339.75
9.116	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)				
	Details of cost for 1 No.				
	MATERIAL				
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter .	each	1.00	9.00	9.00
9999	Labour for fixing	L.S.	1.04	2.00	2.08
	TOTAL				11.08 W
	Add 1 % Water charges on "W"				0.11
	TOTAL				11.19 X
	Add GST (multiplying factor 0.1405) on "X"				1.57
	TOTAL				12.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				1.91
	Total				14.68 Z
	Add Cess @ 1% on "Z"				0.15
	Cost for 1 No.				14.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				14.80
9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1\text{mm}$), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge				
9.117.1	Extruded section profile size 48x40 mm				
	Detail of cost for 5 metre				
	MATERIAL				
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	125.79	628.95
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	4.68	2.00	9.36
	TOTAL				742.61 W
	Add 1 % Water charges on "W"				7.43
	TOTAL				750.04 X
	Add GST (multiplying factor 0.1405) on "X"				105.38
	TOTAL				855.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				128.31
	Total				983.73 Z
	Add Cess @ 1% on "Z"				9.84
	Cost of 5 metre				993.57
	Cost for 1 metre				198.71
	Say				198.70
9.117.2	Extruded section profile size 42x50 mm				
	Detail of cost for 5 metre				
	MATERIAL				
8705	50mmX42mmX2mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	160.00	800.00
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	4.68	2.00	9.36
	TOTAL				913.66 W
	Add 1 % Water charges on "W"				9.14
	TOTAL				922.80 X
	Add GST (multiplying factor 0.1405) on "X"				129.65
	TOTAL				1052.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				157.87
	Total				1210.32 Z
	Add Cess @ 1% on "Z"				12.10
	Cost of 5 metre				1222.42
	Cost for 1 metre				244.48
	Say				244.50

9.118 Providing and fixing to existing door frames.

9.118.1 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).

Detail of cost for one door shutter

2.20x1.08m = 2.38 sqm

MATERIAL

8001	24 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.38	1085.93	2584.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				2903.37 W
	Add 1 % Water charges on "W"				29.03
	TOTAL				2932.40 X
	Add GST (multiplying factor 0.1405) on "X"				412.00
	TOTAL				3344.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				501.66
	Total				3846.06 Z
	Add Cess @ 1% on "Z"				38.46
	Cost of 2.38 sqm				3884.52
	Cost of 1 sqm				1632.15
	Say				1632.15
9.118.2	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.				
	Detail of cost for one door shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8002	30 mm thick Factory made shutters with frame, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.38	1248.82	2972.19
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3291.04 W
	Add 1 % Water charges on "W"				32.91
	TOTAL				3323.95 X
	Add GST (multiplying factor 0.1405) on "X"				467.02
	TOTAL				3790.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				568.65
	Total				4359.62 Z
	Add Cess @ 1% on "Z"				43.60
	Cost of 2.38 sqm				4403.21
	Cost of 1 sqm				1850.09
	Say				1850.10
9.118.3	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places				
	Detail of cost for one door shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8706	25mm thick factory made PVC flash door shutter i/c carriage.	sqm	2.38	1700.00	4046.00
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				4364.85 W
	Add 1 % Water charges on "W"				43.65
	TOTAL				4408.50 X
	Add GST (multiplying factor 0.1405) on "X"				619.39
	TOTAL				5027.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				754.18
	Total				5782.08 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				57.82
	Cost of 2.38 sqm				5839.90
	Cost of 1 sqm				2453.74
	Say				2453.75
9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.				
	Details of cost for one door frame of 5 metre				
	MATERIAL				
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	5.00	251.58	1257.90
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	7.80	2.00	15.60
	TOTAL				1377.80 W
	Add 1 % Water charges on "W"				13.78
	TOTAL				1391.58 X
	Add GST (multiplying factor 0.1405) on "X"				195.52
	TOTAL				1587.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				238.06
	Total				1825.16 Z
	Add Cess @ 1% on "Z"				18.25
	Cost of 5 metres				1843.41
	Cost of 1 metre				368.68
	Say				368.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
9.120.1	30 mm thick plain PVC door shutters Details of cost for one door shutter 2.20x1.08m = 2.38 sqm MATERIAL				
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2.38	1547.45	3682.93
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				4082.18 W
	Add 1 % Water charges on "W"				40.82
	TOTAL				4123.00 X
	Add GST (multiplying factor 0.1405) on "X"				579.28
	TOTAL				4702.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				705.34
	Total				5407.63 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				54.08
	Cost of 2.38 sqm				5461.71
	Cost of 1 sqm				2294.83
	Say				2294.85
9.120.2	30 mm thick pre laminated PVC door shutters				
	Details of cost for one door shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2.38	1547.45	3682.93
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				4082.18 W
	Add 1 % Water charges on "W"				40.82
	TOTAL				4123.00 X
	Add GST (multiplying factor 0.1405) on "X"				579.28
	TOTAL				4702.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				705.34
	Total				5407.63 Z
	Add Cess @ 1% on "Z"				54.08
	Cost of 2.38 sqm				5461.71
	Cost of 1 sqm				2294.83
	Say				2294.85
9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of crossection 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.				
	Details of cost for one door frame of 5 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	metre	5.00	467.00	2335.00
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	7.80	2.00	15.60
	TOTAL				2454.90 W
	Add 1 % Water charges on "W"				24.55
	TOTAL				2479.45 X
	Add GST (multiplying factor 0.1405) on "X"				348.36
	TOTAL				2827.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				424.17
	Total				3251.98 Z
	Add Cess @ 1% on "Z"				32.52
	Cost of 5 metres				3284.50
	Cost of 1 metre				656.90
	Say				656.90

9.122 Providing and fixing to existing door frames.

9.122.1 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.

Details of cost for one door shutter

2.20x1.08m = 2.38 sqm

	MATERIAL				
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	sqm	2.38	2326.00	5535.88
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5935.13 W
	Add 1 % Water charges on "W"				59.35
	TOTAL				5994.48 X
	Add GST (multiplying factor 0.1405) on "X"				842.22
	TOTAL				6836.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				1025.51
	Total				7862.21 Z
	Add Cess @ 1% on "Z"				78.62
	Cost of 2.38 sqm				7940.84
	Cost of 1 sqm				3336.49
	Say				3336.50
9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.				
	Details of cost for one door shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	sqm	2.38	2675.00	6366.50
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				6765.75 W
	Add 1 % Water charges on "W"				67.66
	TOTAL				6833.41 X
	Add GST (multiplying factor 0.1405) on "X"				960.09
	TOTAL				7793.50 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				1169.03
	Total				8962.53 Z
	Add Cess @ 1% on "Z"				89.63
	Cost of 2.38 sqm				9052.15
	Cost of 1 sqm				3803.43
	Say				3803.45
9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge. Details of cost for one door frame of 5 metre				
	MATERIAL				
8710	Factory made solid PVC door frame 60 x 30mm i/c carriage.	metre	5.00	315.00	1575.00
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	7.80	2.00	15.60
	TOTAL				1694.90 W
	Add 1 % Water charges on "W"				16.95
	TOTAL				1711.85 X
	Add GST (multiplying factor 0.1405) on "X"				240.51
	TOTAL				1952.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				292.85
	Total				2245.22 Z
	Add Cess @ 1% on "Z"				22.45
	Cost of 5 metres				2267.67
	Cost of 1 meter				453.53
	Say				453.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.				
9.124.1	Non decorative finish Details of cost for one door shutter 2.20x1.08m = 2.38 sqm MATERIAL				
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish.	sqm	2.38	2000.00	4760.00
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				5159.25 W
	Add 1 % Water charges on "W"				51.59
	TOTAL				5210.84 X
	Add GST (multiplying factor 0.1405) on "X"				732.12
	TOTAL				5942.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				891.45
	Total				6834.41 Z
	Add Cess @ 1% on "Z"				68.34
	Cost of 2.38 sqm				6902.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm				2900.32
	Say				2900.30
9.124.2	Decorative finish (both side wood grained finish)				
	Details of cost for one door shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2.38	2100.00	4998.00
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				5397.25 W
	Add 1 % Water charges on "W"				53.97
	TOTAL				5451.22 X
	Add GST (multiplying factor 0.1405) on "X"				765.90
	TOTAL				6217.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				932.57
	Total				7149.69 Z
	Add Cess @ 1% on "Z"				71.50
	Cost of 2.38 sqm				7221.19
	Cost of 1 sqm				3034.11
	Say				3034.10
9.125	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.				
	Details of cost for 1.0x0.3m = 0.3 sqm				
	MATERIAL				
	PVC rigid foam shet 1mm thick = 0.30 sqm				
	Add wastage @ 10% = 0.03 sqm				
8006	Factory made PVC rigid foam sheet 1mm thick	sqm	0.33	155.80	51.41
	PVC rigid foam sheet 1mm thick = 0.30 sqm				
	Add wastage @ 10% = 0.03 sqm				
	Total = 0.33 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Rubber adhesive	L.S.	21.84	2.00	43.68
	LABOUR				
0014	Carpenter 1st class	day	0.11	476.00	52.36
0017	Beldar	day	0.14	320.83	44.92
0030	Mistry	day	0.02	476.00	9.52
	TOTAL				201.89 W
	Add 1 % Water charges on "W"				2.02
	TOTAL				203.91 X
	Add GST (multiplying factor 0.1405) on "X"				28.65
	TOTAL				232.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.88
	Total				267.44 Z
	Add Cess @ 1% on "Z"				2.67
	Cost of 0.30 sqm				270.12
	Cost of 1 sqm				900.39
	Say				900.40
9.126	Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.				
9.126.1	Marine plywood conforming to IS: 710				
	Details of cost for shutters of a door with 2/ 3rd panelling 200x108cm = 2.16sqm.				
	Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Plywood 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm.				
8724	12mm thick marine plywood conforming to IS:710	sqm	0.80	695.00	556.00
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				839.80 W
	Add 1 % Water charges on "W"				8.40
	TOTAL				848.20 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				119.17
	TOTAL				967.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.11
	Total				1112.48 Z
	Add Cess @ 1% on "Z"				11.12
	Cost of 0.66 sqm.				1123.60
	Cost of 1 sqm.				1702.42
	Say				1702.40
9.126.2	Fire retardant plywood conforming to IS: 5509				
	Details of cost for shutters of a door with 2/3rd panelling 200x108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66sqm.				
	MATERIAL				
	Plywood 4x47.2x38.65cm = 0.73sqm+ Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm.				
8725	12mm thick fire retardant plywood conforming to IS: 5509.	sqm	0.80	850.00	680.00
9977	Carriage of Plywood	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				963.80 W
	Add 1 % Water charges on "W"				9.64
	TOTAL				973.44 X
	Add GST (multiplying factor 0.1405) on "X"				136.77
	TOTAL				1110.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.53
	Total				1276.74 Z
	Add Cess @ 1% on "Z"				12.77
	Cost of 0.66 sqm.				1289.50
	Cost of 1 sqm.				1953.79
	Say				1953.80
9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
9.127.1	1.5 mm thick				
	Details of cost for 5.00 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8726	1.5mm thick decorative laminated sheet	sqm	5.50	365.00	2007.50
9999	Adhesive	L.S.	195.00	2.00	390.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries i/c nails etc.	L.S.	52.00	2.00	104.00
	TOTAL				2899.92 W
	Add 1 % Water charges on "W"				29.00
	TOTAL				2928.91 X
	Add GST (multiplying factor 0.1405) on "X"				411.51
	TOTAL				3340.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				501.06
	Total				3841.49 Z
	Add Cess @ 1% on "Z"				38.41
	Cost for 5.00 sqm				3879.91
	Cost for 1 sqm				775.98
	Say				776.00
9.127.2	1.0 mm thick				
	Details of cost for 5.00 sqm				
	MATERIAL				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8727	1.0mm thick decorative laminated sheet	sqm	5.50	280.00	1540.00
9999	Adhesive	L.S.	195.00	2.00	390.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries i/c nails etc.	L.S.	52.00	2.00	104.00
	TOTAL				2432.42 W
	Add 1 % Water charges on "W"				24.32
	TOTAL				2456.74 X
	Add GST (multiplying factor 0.1405) on "X"				345.17
	TOTAL				2801.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				420.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3222.20 Z
	Add Cess @ 1% on "Z"				32.22
	Cost for 5.00 sqm				3254.42
	Cost for 1 sqm				650.88
	Say				650.90
9.128	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.				
	Detail of cost for a chajja 0.90 x 0.60 =				
	0.54 sqm				
	MATERIAL				
8713	Fiber glass reinforced plastic chajja	sqm	0.54	3000.00	1620.00
9977	Carriage	L.S.	26.00	2.00	52.00
9999	fixing charges including sundries.	L.S.	143.00	2.00	286.00
	TOTAL				1958.00 W
	Add 1 % Water charges on "W"				19.58
	TOTAL				1977.58 X
	Add GST (multiplying factor 0.1405) on "X"				277.85
	TOTAL				2255.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				338.31
	Total				2593.74 Z
	Add Cess @ 1% on "Z"				25.94
	Cost for 0.54 sqm				2619.68
	Cost for 1 sqm				4851.26
	Say				4851.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge				
	Details of cost for one shutter 2.20x1.00m = 2.20sqm. MATERIAL				
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	2.20	900.00	1980.00
9977	CARRIAGE	L.S.	29.64	2.00	59.28
8678	1mm thick 35mm wide bright finished stainless steel piano hinges .	metre	4.40	42.00	184.80
685	Oxidised mild steel screws 25 mm	100	1.25	36.00	45.00
	LABOUR	Nos			
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
0030	Mistry	day	0.07	476.00	33.32
7271	IInd class teak wood lipping 25 mm wide x 12 mm tl	metre	7.00	29.00	203.00
	TOTAL				2903.82 W
	Add 1 % Water charges on "W"				29.04
	TOTAL				2932.85 X
	Add GST (multiplying factor 0.1405) on "X"				412.07
	TOTAL				3344.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				501.74
	Total				3846.66 Z
	Add Cess @ 1% on "Z"				38.47
	Cost for 2.20sqm.				3885.12
	Cost of 1 sqm				1765.97
	Say				1765.95
9.13	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.				
9.130.1	With decorative veneering on one side and commercial veneering on other side Details of cost for one shutter 2.20x1.00m = 2.20sqm. MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7269	25 mm thick particle board	sqm	2.20	460.00	1012.00
346	Extra for veneered particle board with : Teak veneering on one side and commercial veneered on other side	sqm	2.20	230.00	506.00
9977	CARRIAGE	L.S.	29.64	2.00	59.28
8678	1mm thick 35mm wide bright finished stainless steel	metre	4.40	42.00	184.80
685	Oxidised mild steel screws 25 mm	100 Nos	1.25	36.00	45.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
0030	Mistry	day	0.07	476.00	33.32
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	29.00	203.00
	TOTAL				2441.82 W
	Add 1 % Water charges on "W"				24.42
	TOTAL				2466.23 X
	Add GST (multiplying factor 0.1405) on "X"				346.51
	TOTAL				2812.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				421.91
	Total				3234.65 Z
	Add Cess @ 1% on "Z"				32.35
	Cost for 2.20sqm.				3267.00
	Cost of 1 sqm				1485.00
	Say				1485.00
9.130.2	With non decorative veneering on both sides				
	Details of cost for one shutter 2.20x1.00m = 2.20sq				
	MATERIAL				
7269	25 mm thick particle board	sqm	2.20	460.00	1012.00
347	Extra for veneered particle board with: Commercial veneering on both sides	sqm	2.20	155.00	341.00
9977	CARRIAGE	L.S.	29.64	2.00	59.28
8678	1mm thick 35mm wide bright finished stainless steel	metre	4.40	42.00	184.80
685	Oxidised mild steel screws 25 mm	100 Nos	1.25	36.00	45.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
0030	Mistry	day	0.07	476.00	33.32
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	29.00	203.00
	TOTAL				2276.82 W
	Add 1 % Water charges on "W"				22.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2299.58 X
	Add GST (multiplying factor 0.1405) on "X"				323.09
	TOTAL				2622.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				393.40
	Total				3016.08 Z
	Add Cess @ 1% on "Z"				30.16
	Cost for 2.20sqm.				3046.24
	Cost of 1 sqm				1384.65
	Say				1384.65
9.131	Providing and fixing factory made shutters of Pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS: 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all- round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).				
9.131.1	25 mm thick				
	Details of cost for 2.10sqm.				
	(Door size 2.1x1.00 = 2.10sqm.)				
	MATERIAL				
	Prelaminated particle board = 2.10sqm. + Add for wastage @ 5% = 0.11sqm. Total = 2.21sqm.				
7445	25 mm prelaminated flush door both side decorative	sqm	2.21	800.00	1768.00
7443	Aluminium single cleat of size 30x32x3	each	4.00	14.00	56.00
7444	Aluminium grip strip of size 50x12x2	each	8.00	11.00	88.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.15	160.00	24.00
9988	Carriage of materials including loading and unloading	L.S.	19.50	2.00	39.00
9999	Sundries and screws etc.	L.S.	39.00	2.00	78.00
	LABOUR				
0015	Carpenter 2nd class	day	0.27	374.50	101.12
0017	Beldar	day	0.30	320.83	96.25
	TOTAL				2250.36 W
	Add 1 % Water charges on "W"				22.50
	TOTAL				2272.87 X
	Add GST (multiplying factor 0.1405) on "X"				319.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2592.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				388.83
	Total				2981.04 Z
	Add Cess @ 1% on "Z"				29.81
	Cost for 2.10sqm.				3010.85
	Cost of 1 sqm				1433.74
	Say				1433.75
9.132	Providing and fixing aluminum U beading of required size to Pre-laminated/flush door shutter, including fixing etc. complete as per direction of Engineer-in-charge.				
	Details of cost for 1kg.				
	MATERIAL				
	Aluminum U beading = 1.00kg + Add 10% wastage = 0.10 Total = 1.10kg.				
7449	Aluminium U beading	kilogram	1.10	210.00	231.00
9999	Anodized 15 micron	L.S.	65.00	2.00	130.00
9999	Sundries including screws, fixing, carriage etc.	L.S.	13.00	2.00	26.00
	TOTAL				387.00 W
	Add 1 % Water charges on "W"				3.87
	TOTAL				390.87 X
	Add GST (multiplying factor 0.1405) on "X"				54.92
	TOTAL				445.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.87
	Total				512.66 Z
	Add Cess @ 1% on "Z"				5.13
	Cost for 1 kg.				517.78
	Say				517.80
9.133	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.133.1	Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/ sq.cm, Bending strength 100 kg/sq.cm.				
9.133.1.1	10mm thick				
	Details of cost for 3.66 m x 3.05 m = 11.16 sqm.				
	MATERIAL				
	Calcium silicate board 10mm thick.				
	= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm. Total = 12.28 sqm				
8700	10 mm thick calcium silicate board.	sqm	12.28	420.00	5157.60
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	19.66	35.00	688.10
8721	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm	metre	9.60	22.00	211.20
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	1.76	68.00	119.68
9999	Jointing compound	L.S.	20.80	2.00	41.60
7018	Joint tape roll	roll	0.19	100.00	19.00
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	2.00	104.00
9977	Carriage of materials	L.S.	26.00	2.00	52.00
	LABOUR				
0014	Carpenter 1st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
	TOTAL				9761.80 W
	Add 1 % Water charges on "W"				97.62
	TOTAL				9859.42 X
	Add GST (multiplying factor 0.1405) on "X"				1385.25
	TOTAL				11244.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				1686.70
	Total				12931.36 Z
	Add Cess @ 1% on "Z"				129.31
	Cost for 11.16 sqm				13060.68
	Cost for 1 sqm				1170.31
	Say				1170.30
9.133.2	Multipurpose cement board reinforced with with suitable fibre cement screw.				
9.133.2.1	8 mm thick cement fibre board as per IS : 14862				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 3.66 m x 3.05 m = 11.16 sqm.					
MATERIAL					
Multipurpose non asbestos fibre cement board 8mm thick.= 11.16 sqm Add wastage @ 10% = 1.12 sqm. Total = 12.28 sqm					
237	Multi purpose fibre (high impact poly propylene reinforced) cement board 8mm thick.	sqm	12.28	220.00	2701.60
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	19.66	35.00	688.10
8721	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	9.60	22.00	211.20
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	1.76	68.00	119.68
9999	Jointing compound	L.S.	20.80	2.00	41.60
7018	Joint tape roll	roll	0.19	100.00	19.00
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	2.00	104.00
9977	Carriage of materials	L.S.	26.00	2.00	52.00
LABOUR					
0014	Carpenter 1st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
TOTAL					7305.80 W
Add 1 % Water charges on "W"					73.06
TOTAL					7378.86 X
Add GST (multiplying factor 0.1405) on "X"					1036.73
TOTAL					8415.59 Y
Add 15 % Contractor's profit and overheads on "Y"					1262.34
Total					9677.92 Z
Add Cess @ 1% on "Z"					96.78
Cost for 11.16 sqm					9774.70
Cost for 1 sqm					875.87
Say					875.85

9.133.2.2 8 mm thick Cement bonded wood particle board as per IS:14276

Details of cost for 3.66 m x 3.05 m =11.16 sqm

MATERIAL:

243	Multipurpose cement bonded wood particle board 8mm thick Add wastage @ 10% =1.12 sqm. Total = 12.28 sqm	Sqm	12.28	215.00	2640.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	35.00	688.10
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	22.00	211.20
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	1.76	68.00	119.68
9999	Jointing compound	L.S	20.80	2.00	41.60
7018	Joint tape roll	each roll	0.19	100.00	19.00
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S	52.00	2.00	104.00
9999	Carriage of materials	L.S	26.00	2.00	52.00
LABOUR:					
0014	Carpenter 1 st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
	TOTAL				7244.40 W
	Add 1 % Water charges on "W"				72.44
	TOTAL				7316.84 X
	Add GST (multiplying factor 0.1405) on "X"				1028.02
	TOTAL				8344.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				1251.73
	Total				9596.59 Z
	Add Cess @ 1% on "Z"				95.97
	Cost for 11.16 sqm				9692.55
	Cost for 1 sqm				868.51
	Say				868.50
9.133.3	Plain Gypsum plaster board conforming to IS: 2095 (Part -1) : 2011 (Board with BIS certification marks).				
9.133.3.1	12.5 mm thick				
	Details of cost for 3.66 m x 3.05 m = 11.16 sqm.				
	MATERIAL				
	Glass fibre reinforced gypsum board 12.5 mm thick.= 11.16 sqm Add wastage @ 10% = 1.12 sqm. Total = 12.28 sqm				
7009	12.5 mm thick Plain Gypsum plaster board	sqm	12.28	155.00	1903.40
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55mm and two flanges of 26mm each with lips of 10.55mm.	metre	19.66	35.00	688.10
8721	Perimeter channel having one flange of 20mm and another flange of 30mm with thickness of 0.55mm and web of length 27mm.	metre	9.60	22.00	211.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8722	Nylon sleeves & wooden screws (40mm)	each	42.00	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	1.76	68.00	119.68
9999	Jointing compound	L.S.	20.80	2.00	41.60
7018	Joint tape roll	roll	0.19	100.00	19.00
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	2.00	104.00
9977	Carriage of materials	L.S.	26.00	2.00	52.00
	LABOUR				
0014	Carpenter 1st class	day	3.80	476.00	1808.80
0017	Beldar	day	4.60	320.83	1475.82
	TOTAL				6507.60 W
	Add 1 % Water charges on "W"				65.08
	TOTAL				6572.67 X
	Add GST (multiplying factor 0.1405) on "X"				923.46
	TOTAL				7496.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				1124.42
	Total				8620.55 Z
	Add Cess @ 1% on "Z"				86.21
	Cost for 11.16 sqm				8706.76
	Cost for 1 sqm				780.18
	Say				780.20
9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :				
9.134.1	35 mm thick shutters				
9.134.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
9.134.1.1.1	Second class teak wood				
	Details of cost for door shutters 2.00x1.08m = 2.16				
	MATERIAL				
	Teak wood (2nd class)				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings -				
	(2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	Total = 0.0514 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Say 51.4 cu dm. Second class teak wood in planks Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	10 cu dm	5.14	791.00	4065.74
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.05	121.29	6.23
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.11	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				6135.28 W
	Add 1 % Water charges on "W"				61.35
	TOTAL				6196.63 X
	Add GST (multiplying factor 0.1405) on "X"				870.63
	TOTAL				7067.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				1060.09
	Total				8127.34 Z
	Add Cess @ 1% on "Z"				81.27
	Cost of 2.16 sqm.				8208.62
	Cost of 1 sqm.				3800.29
	Say				3800.30

9.134.1.1.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+

Lock and bottom rail

2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings -
(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total
= 0.0464 cum.+

Add for wastage @ 10% = 0.005 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0514 cum. Say 51.4 cudm.				
2505	Hollock wood in planks	10 cudm	5.14	390.00	2004.60
2204	Carriage of Timber	cum	0.0514	121.29	6.23
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.97	2.00	17.94
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4130.63 W
	Add 1 % Water charges on "W"				41.31
	TOTAL				4171.93 X
	Add GST (multiplying factor 0.1405) on "X"				586.16
	TOTAL				4758.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				713.71
	Total				5471.80 Z
	Add Cess @ 1% on "Z"				54.72
	Cost of 2.16 sqm.				5526.52
	Cost of 1 sqm.				2558.57
	Say				2558.55

9.134.1.1.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm.				
1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.14	650.00	3341.00
2204	Carriage of Timber	cum	0.0514	121.29	6.23
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5449.09 W
	Add 1 % Water charges on "W"				54.49
	TOTAL				5503.58 X
	Add GST (multiplying factor 0.1405) on "X"				773.25
	TOTAL				6276.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				941.52
	Total				7218.35 Z
	Add Cess @ 1% on "Z"				72.18
	Cost of 2.16 sqm.				7290.54
	Cost of 1 sqm.				3375.25
	Say				3375.25

9.134.1.2 With ISI marked stainless steel butt hinges of required size

9.134.1.2.1 Second class teak wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Second class Teak wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm.				
1190	Second class teak wood in planks Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.	10 cudm	5.14	791.00	4065.74
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber	cum	0.0514	121.29	6.23
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				6339.48 W
	Add 1 % Water charges on "W"				63.39
	TOTAL				6402.87 X
	Add GST (multiplying factor 0.1405) on "X"				899.60
	TOTAL				7302.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				1095.37
	Total				8397.85 Z
	Add Cess @ 1% on "Z"				83.98
	Cost of 2.16 sqm.				8481.82
	Cost of 1 sqm.				3926.77
	Say				3926.75

9.134.1.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Hollock wood

Styles 4x200x9.5x3.5cm = 0.0266cum+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm.				
2505	Hollock wood in planks	10 cudm	5.14	390.00	2004.60
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.97	2.00	17.94
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber	cum	0.0514	121.29	6.23
	LABOUR				
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4334.83 W
	Add 1 % Water charges on "W"				43.35
	TOTAL				4378.17 X
	Add GST (multiplying factor 0.1405) on "X"				615.13
	TOTAL				4993.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				749.00
	Total				5742.30 Z
	Add Cess @ 1% on "Z"				57.42
	Cost of 2.16 sqm.				5799.73
	Cost of 1 sqm.				2685.06
	Say				2685.05

9.134.1.2.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for door shutters 2.00x1.08m = 2.16 sqm.					
MATERIAL					
Hollock wood					
Styles 4x200x9.5x3.5cm = 0.0266cum+					
Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+					
Lock and bottom rail					
2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings -					
(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum. Total					
= 0.0464 cum.+					
Add for wastage @ 10% = 0.005 cum.					
Total = 0.0514 cum.					
Say 51.4 cudm.					
1200	Kiln seasoned selected sheesum wood planks	10 cudm	5.14	650.00	3341.00
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
Wire gauge 2x160x40cm = 1.28 sqm.+ Add					
wastage @ 10% = 0.13 sqm.					
Total = 1.41 sqm.					
8737	Stainless steel wire guage (Grade-304) aperture	sqm	1.41	400.00	564.00
1.4mm and 0.50 mm dia wire					
8220	Stainless steel butt hinges (heavy weight)	10 Nos	0.60	255.00	153.00
100x60x2.5 mm IS : 12817 marked					
8218	Stainless steel butt hinges 50x37x	10 Nos	0.20	135.00	27.00
1.5 mm IS : 12817 marked					
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
2204	Carriage of Timber	cum	0.0514	121.29	6.23
LABOUR					
0014	Carpenter 1st class	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.05	320.83	336.87
0030	Mistry	day	0.105	476.00	49.98
9999	Sundries	L.S.	33.80	2.00	67.60
TOTAL					5653.29 W
Add 1 % Water charges on "W"					56.53
TOTAL					5709.82 X
Add GST (multiplying factor 0.1405) on "X"					802.23
TOTAL					6512.05 Y
Add 15 % Contractor's profit and overheads on "Y"					976.81
Total					7488.86 Z
Add Cess @ 1% on "Z"					74.89
Cost of 2.16 sqm.					7563.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				3501.73
	Say				3501.75
9.134.2	30 mm thick shutters				
9.134.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
9.134.2.1.1	Second class teak wood				
	Details of cost for door shutters 2.00x1.08m = 2.16 sqm.				
	MATERIAL				
	Teak wood (2nd class)				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail				
	2x110.5x19.7x3cm = 0.013 cum+ Beadings -				
	(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum.				
	Say 44 cudm.				
1190	Second class teak wood in planks	10 cudm	4.40	791.00	3480.40
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5445.57 W
	Add 1 % Water charges on "W"				54.46
	TOTAL				5500.02 X
	Add GST (multiplying factor 0.1405) on "X"				772.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6272.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				940.92
	Total				7213.69 Z
	Add Cess @ 1% on "Z"				72.14
	Cost of 2.16 sqm.				7285.83
	Cost of 1 sqm.				3373.07
	Say				3373.05

9.134.2.1.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

2505	Hollock wood in planks	10 cudm	4.40	390.00	1716.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	8.97	2.00	17.94
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				3732.11 W
	Add 1 % Water charges on "W"				37.32
	TOTAL				3769.43 X
	Add GST (multiplying factor 0.1405) on "X"				529.60
	TOTAL				4299.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				644.85
	Total				4943.89 Z
	Add Cess @ 1% on "Z"				49.44
	Cost of 2.16 sqm.				4993.33
	Cost of 1 sqm.				2311.73
	Say				2311.75

9.134.2.1.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

1200	Kiln seasoned selected sheesum wood planks	10 cudm	4.40	650.00	2860.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
640	Bright finished or black enamelled mild steel screws 20 mm LABOUR	100 Nos	0.08	30.00	2.40
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				4858.17 W
	Add 1 % Water charges on "W"				48.58
	TOTAL				4906.75 X
	Add GST (multiplying factor 0.1405) on "X"				689.40
	TOTAL				5596.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				839.42
	Total				6435.57 Z
	Add Cess @ 1% on "Z"				64.36
	Cost of 2.16 sqm.				6499.92
	Cost of 1 sqm.				3009.22
	Say				3009.20

9.134.2.2 With ISI marked stainless steel butt hinges of required size

9.134.2.2.1 Second class teak wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Teak wood (2nd class)

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

1190	Second class teak wood in planks	10 cudm	4.40	791.00	3480.40
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	LABOUR	Nos			
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5649.77 W
	Add 1 % Water charges on "W"				56.50
	TOTAL				5706.26 X
	Add GST (multiplying factor 0.1405) on "X"				801.73
	TOTAL				6507.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				976.20
	Total				7484.19 Z
	Add Cess @ 1% on "Z"				74.84
	Cost of 2.16 sqm.				7559.04
	Cost of 1 sqm.				3499.55
	Say				3499.55

9.134.2.2.2 Kiln seasoned and chemically treated hollock wood

Details of cost for door shutters 2.00x1.08m = 2.16 sqm.

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

2505	Hollock wood in planks	10 cudm	4.40	390.00	1716.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Chemical treatment	L.S.	9.10	2.00	18.20
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
	LABOUR				
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				3936.57 W
	Add 1 % Water charges on "W"				39.37
	TOTAL				3975.93 X
	Add GST (multiplying factor 0.1405) on "X"				558.62
	TOTAL				4534.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				680.18
	Total				5214.73 Z
	Add Cess @ 1% on "Z"				52.15
	Cost of 2.16 sqm.				5266.88
	Cost of 1 sqm.				2438.37
	Say				2438.35

9.134.2.2.3 Kiln seasoned selected class of sheesham wood

Details of cost for door shutters 2.00x1.08m = 2.16

MATERIAL

Hollock wood

Styles 4x209x9.5x3cm = 0.023 cum+

Top Rail - 1x110.5x9.5x3cm = 0.003cum+

Lock and bottom rail

2x110.5x19.7x3cm = 0.013 cum+ Beadings -

(2x312+2x150)x(1.2)x (1.2)cm = 0.001 cum.

Total = 0.040 cum+

Add for wastage @ 10% = 0.004 cum.

Total = 0.44 cum.

Say 44 cudm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1200	Kiln seasoned selected sheesum wood planks	10 cudm	4.40	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of Timber	cum	0.044	121.29	5.34
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total = 1.41 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.41	400.00	564.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	0.60	255.00	153.00
8218	Stainless steel butt hinges 50x37x 1.5 mm IS : 12817 marked	10 Nos	0.20	135.00	27.00
8211	Stainless steel screws 40 mm	100 Nos	0.48	215.00	103.20
8214	Stainless steel screws 20 mm	100 Nos	0.08	125.00	10.00
0014	Carpenter 1st class	day	1.20	476.00	571.20
0015	Carpenter 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.00	320.83	320.83
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries	L.S.	33.80	2.00	67.60
	TOTAL				5062.37 W
	Add 1 % Water charges on "W"				50.62
	TOTAL				5112.99 X
	Add GST (multiplying factor 0.1405) on "X"				718.38
	TOTAL				5831.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				874.70
	Total				6706.07 Z
	Add Cess @ 1% on "Z"				67.06
	Cost of 2.16 sqm.				6773.13
	Cost of 1 sqm.				3135.71
	Say				3135.70
9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
9.135.1	With 2nd class teak wood beading 62X19 mm				
	Details of cost for a window of size 140x110cm =1.54sqm.				
	MATERIAL				
	Wire gauze -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.69	400.00	676.00
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum. Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm.				
1190	Second class teak wood in planks	10 cudm	0.60	791.00	474.60
2204	Carriage of Timber LABOUR	cum	0.006	121.29	0.73
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				1398.28 W
	Add 1 % Water charges on "W"				13.98
	TOTAL				1412.26 X
	Add GST (multiplying factor 0.1405) on "X"				198.42
	TOTAL				1610.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				241.60
	Total				1852.29 Z
	Add Cess @ 1% on "Z"				18.52
	Cost of 1.54 sqm.				1870.81
	Cost of 1 sqm.				1214.81
	Say				1214.80
9.135.2	With 12 mm mild steel U beading				
	Details of cost for a window of size 140x110cm =1.54sqm.				
	MATERIAL				
	Wire gauze -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sam. Total = 1.69 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.69	400.00	676.00
9977	Carriage of wire fabric	L.S.	1.82	2.00	3.64
7349	12 mm M.S. 'U' beading LABOUR	metre	5.00	14.00	70.00
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				992.95 W
	Add 1 % Water charges on "W"				9.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1002.88 X
	Add GST (multiplying factor 0.1405) on "X"				140.90
	TOTAL				1143.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				171.57
	Total				1315.35 Z
	Add Cess @ 1% on "Z"				13.15
	Cost of 1.54 sqm.				1328.51
	Cost of 1 sqm.				862.67
	Say				862.65
9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately). Details of cost for 3300/2750mm Door (9.10 metre length)				
	MATERIAL				
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	9.10	1050.00	9555.00
	LABOUR				
9999	Labour for fixing	L.S.	130	2.00	260.00
9988	Sundries and carriage	L.S.	4.23	2.00	8.46
	TOTAL				9823.46 W
	Add 1 % Water charges on "W"				98.23
	TOTAL				9921.69 X
	Add GST (multiplying factor 0.1405) on "X"				1394.00
	TOTAL				11315.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				1697.35
	Total				13013.05 Z
	Add Cess @ 1% on "Z"				130.13
	Cost of 9.10 metres				13143.18
	Cost of 1.00 metre				1444.31
	Say				1444.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.137	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately). Details of cost for 3.50 sqm (Door size 1710x2050 mm)				
	MATERIAL				
8739	Fire rated door shutter made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	3.50	4500.00	15750.00
	LABOUR				
9999	Labour for fixing	L.S.	180.00	2.00	360.00
9988	Sundries & Carriage	L.S.	10.00	2.00	20.00
	TOTAL				16130.00 W
	Add 1 % Water charges on "W"				161.30
	TOTAL				16291.30 X
	Add GST (multiplying factor 0.1405) on "X"				2288.93
	TOTAL				18580.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				2787.03
	Total				21367.26 Z
	Add Cess @ 1% on "Z"				213.67
	Cost of 3.50 sqm				21580.93
	Cost of 1 sqm				6165.98
	Say				6166.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.138	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-charge with glass of required thickness having 60 minutes of fire resistance both integrity & radiation control (EW60) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm				
	Details of cost for 2.46 sqm (Door size 1710 mm x 2050 mm) Glazing area = 2x0.679x1.808= 2.46sqm.				
	MATERIAL				
8760	Glass panes of required thickness having 60 minutes of fire resistance both integrity and radiation control (EW 60) and minimum 20 minutes of Insulation (EI 20)	sqm	2.46	22500.00	55350.00
2641	G.I. U beading of 1.6 mm thick G.I. Sheet with M4x38mm SS screws	metre	9.91	245.00	2427.95
2642	Ceramic tape 5x20 mm size	metre	19.82	410.00	8126.20
9999	For fixing in position all complete	L.S.	180.00	2.00	360.00
9988	Sundries & Carriage	L.S.	10.00	2.00	20.00
	TOTAL				66284.15 W
	Add 1 % Water charges on "W"				662.84
	TOTAL				66946.99 X
	Add GST (multiplying factor 0.1405) on "X"				9406.05
	TOTAL				76353.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				11452.96
	Total				87806.00 Z
	Add Cess @ 1% on "Z"				878.06
	Cost of 2.46 sqm				88684.06
	Cost of 1 sqm				36050.43
	Say				36050.45
9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.				
	Details of cost for 1 Nos				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8744	Panic Bar / latch (Double point)	each	1.00	5200.00	5200.00
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9977	Sundries (screws and carriage)	L.S.	3.64	2.00	7.28
	TOTAL				5288.20 W
	Add 1 % Water charges on "W"				52.88
	TOTAL				5341.08 X
	Add GST (multiplying factor 0.1405) on "X"				750.42
	TOTAL				6091.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				913.73
	Total				7005.23 Z
	Add Cess @ 1% on "Z"				70.05
	Total				7075.28
	Cost of 1 No				7075.28
	Say				7075.30
9.140	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in- charge (Frame work shall be paid for separately).				
9.140.1	12mm thick commercial ply conforming to IS : 1328 BWR type				
	Details of cost for 10 sqm				
	MATERIAL				
2413	12 mm commercial ply Priming coat	sqm	11.00	500.00	5500.00
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	38.95	389.52 A
9999	Sundries and screws etc.	L.S.	40.10	2.00	80.20
	LABOUR				
0041	Carpenter (average)	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
9988	Sundries and carriage	L.S.	33.56	2.00	67.12
	TOTAL				6974.99 W
	Add 1 % Water charges on "W-A"	6585.47			65.85
	TOTAL				7040.85 X
	Add GST (multiplying factor 0.1405) on "X-A"	6651.32			934.51
	TOTAL				7975.36 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	7585.83			1137.87
	Total				9113.23 Z
	Add Cess @ 1% on "Z-A"	8723.71			87.24
	Cost of 10 sqm				9200.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm				920.05
	Say				920.05
9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.				
	Details of cost for one door frame of 5 metre				
	MATERIAL				
8014	Factory made door frame of size 50x47mm with wall thickness 5 mm made of single pieces extruded profile	meter	5.00	298.74	1493.70
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	11.65	2.00	23.30
	TOTAL				1621.30 W
	Add 1 % Water charges on "W"				16.21
	TOTAL				1637.51 X
	Add GST (multiplying factor 0.1405) on "X"				230.07
	TOTAL				1867.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				280.14
	Total				2147.72 Z
	Add Cess @ 1% on "Z"				21.48
	Cost of 5 metres				2169.20
	Cost of 1 metre				433.84
	Say				433.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.				
9.142.1	Non decorative finish (matt finish) Details of cost for of one shutter 2.20x1.08m = 2.38 sqm MATERIAL				
8735	35 mm thick factory made solid panel	sqm	2.38	2150.00	5117.00
	PVC door shutter of single piece extruded profile non decorative finished (Matt finished)				
8100	Powder coated M.S. butt hinges	10 Nos	0.40	123.00	49.20
	100mm X58mmX1.9mm				
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	30.35	2.00	60.70
	TOTAL				5536.23 W
	Add 1 % Water charges on "W"				55.36
	TOTAL				5591.59 X
	Add GST (multiplying factor 0.1405) on "X"				785.62
	TOTAL				6377.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				956.58
	Total				7333.80 Z
	Add Cess @ 1% on "Z"				73.34
	Cost of 2.38 sqm				7407.13
	Cost of 1 sqm				3112.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				3112.25
9.142.2	Decorative finish (wood grained finish)				
	Details of cost for of one shutter				
	2.20x1.08m = 2.38 sqm				
	MATERIAL				
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (Wood grain finished)	sqm	2.38	2600.00	6188.00
8100	Powder coated M.S. butt hinges 100mm X58mmX1.9mm	10 Nos	0.40	123.00	49.20
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	30.35	2.00	60.70
	TOTAL				6607.23 W
	Add 1 % Water charges on "W"				66.07
	TOTAL				6673.30 X
	Add GST (multiplying factor 0.1405) on "X"				937.60
	TOTAL				7610.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				1141.64
	Total				8752.54 Z
	Add Cess @ 1% on "Z"				87.53
	Cost of 2.38 sqm				8840.06
	Cost of 1 sqm				3714.31
	Say				3714.30
9.143	Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fasteners, all complete as per manufacturer's specification and direction of Engineer-in-charge.				
	Details of cost for one door frame of 5 metre				
	MATERIAL				
8745	65mm x 55mm x 2mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	5.00	355.00	1775.00
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	4.68	2.00	9.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1888.66 W
	Add 1 % Water charges on "W"				18.89
	TOTAL				1907.55 X
	Add GST (multiplying factor 0.1405) on "X"				268.01
	TOTAL				2175.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				326.33
	Total				2501.89 Z
	Add Cess @ 1% on "Z"				25.02
	Cost of 5 metres				2526.91
	Cost of 1 metre				505.38
	Say				505.40
9.144	Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (+ 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge. Details of cost for of one shutter 2.20x1.08m = 2.38 sqm MATERIAL				
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2.38	2400.00	5712.00
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				6030.85 W
	Add 1 % Water charges on "W"				60.31
	TOTAL				6091.16 X
	Add GST (multiplying factor 0.1405) on "X"				855.81
	TOTAL				6946.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				1042.05
	Total				7989.01 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				79.89
	Cost of 2.38 sqm				8068.90
	Cost of 1 sqm				3390.30
	Say				3390.30
9.145	Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer- in-charge. Details of cost for one door frame of 5 metre MATERIAL				
8747	75mm x 53mm x 2.0mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	5.00	400.00	2000.00
	LABOUR				
0041	Carpenter (average)	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	4.68	2.00	9.36
	TOTAL				2113.66 W
	Add 1 % Water charges on "W"				21.14
	TOTAL				2134.80 X
	Add GST (multiplying factor 0.1405) on "X"				299.94
	TOTAL				2434.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				365.21
	Total				2799.95 Z
	Add Cess @ 1% on "Z"				28.00
	Cost of 5 metres				2827.94
	Cost of 1 metre				565.59
	Say				565.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.146	Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.				
	Details of cost for of one shutter 2.20x1.08m = 2.38 sqm MATERIAL				
8748	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish.	sqm	2.38	2600.00	6188.00
	LABOUR				
0041	Carpenter (average)	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	20.36	2.00	40.72
	TOTAL				6506.85 W
	Add 1 % Water charges on "W"				65.07
	TOTAL				6571.92 X
	Add GST (multiplying factor 0.1405) on "X"				923.35
	TOTAL				7495.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				1124.29
	Total				8619.57 Z
	Add Cess @ 1% on "Z"				86.20
	Cost of 2.38 sqm				8705.76
	Cost of 1 sqm				3657.88
	Say				3657.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147A	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)				
Note:	For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.) Detail of Cost for uPVC casement window size 0.50 x 1.35 m = 0.68 sqm MATERIAL				
8121	uPVC extruded (small series) casement window frame size 47x50mm i/c 5% wastage	metre	3.89	258.30	1004.79
8122	uPVC extruded (small series) casement window sash/window mullion size 47x68 mm i/c 5% wastage	metre	3.68	282.90	1041.07
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash	metre	3.49	98.40	343.42
3991	Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage Window Frame = 3.59 M + Window Sash = 3.38 M Total = 6.97 M	metre	6.97	66.00	460.02
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	14.55	19.00	276.45
3995	G.I fasteners 100 x 8 mm	each	8.00	14.00	112.00
8757	Stainless steel friction hinges (SS-304 grade) size 300 x 19 x 1.9 mm for uPVC window	each	2.00	245.00	490.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	1.00	130.00	130.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricitv charges etc.	sqm	0.68	485.00	329.80
0047	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	0.68	430.00	292.40
	TOTAL				4819.95 W
	Add 1 % Water charges on "W"				48.20
	TOTAL				4868.14 X
	Add GST (multiplying factor 0.1405) on "X"				683.97
	TOTAL				5552.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				832.82
	Total				6384.94 Z
	Add Cess @ 1% on "Z"				63.85
	Cost of 0.68 sqm				6448.79
	Cost of 1.00 sqm				9483.51
	Say				9483.50
9.147A.2	Casement window double panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window above 0.75 sqm upto 1.50 sqm). Detail of cost for uPVC casement window size 1.00 x 1.35 m = 1.35 sqm. MATERIAL				
8121	uPVC extruded (small series) casement window frame size 47x50mm i/c 5% wastage	metre	4.94	258.30	1276.00
8122	uPVC extruded (small series) casement window sash/window Mullion size 47x68 mm i/c 5% wastage	metre	8.86	282.90	2506.49
	Window Sash = 7.44 M + Window Mullion = 1.42 M				
	Total = 8.86 M				
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash i/c 5% wastage	metre	7.06	98.40	694.70
	Galvanized iron reinforcement for				
3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage	metre	12.63	66.00	833.58
	Window Frame = 4.64 M + Window Sash = 6.64 M + Window Mullion = 1.35 M				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 12.63 M				
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	27.91	19.00	530.29
3995	G.I fasteners 100 x 8 mm	each	10.00	14.00	140.00
8757	Stainless steel friction hinges (SS-304 grade) size 300 x 19 x 1.9 mm for uPVC window	each	4.00	245.00	980.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	2.00	130.00	260.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	1.35	485.00	654.75
0047	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	1.35	430.00	580.50
	TOTAL				8796.32 W
	Add 1 % Water charges on "W"				87.96
	TOTAL				8884.28 X
	Add GST (multiplying factor 0.1405) on "X"				1248.24
	TOTAL				10132.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				1519.88
	Total				11652.40 Z
	Add Cess @ 1% on "Z"				116.52
	Cost of 1.35 sqm				11768.93
	Cost of 1.00 sqm				8717.72
	Say				8717.70
9.147A.3	Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm).				
	Detail of cost for uPVC casement window size 1.20 x 1.80 m = 2.16 sqm				
	MATERIAL				
8121	uPVC extruded (small series) casement window frame size 47x50mm i/c 5% wastage	metre	6.30	258.30	1627.29
8122	uPVC extruded (small series) casement window sash/window Mullion size 47x68 mm i/c 5% wastage Window Sash = 7.28 M + Window Mullion = 2.52 M	metre	9.80	282.90	2772.42
	Total = 9.80 M				
8125	uPVC extruded glazing bead of appropriate dimension for small series	metre	10.62	98.40	1045.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3991	casement window Sash i/c 5% wastage Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window frame, sash, mullion i/c 5% wastage Window Frame = 6.00 M + Window Sash = 6.68 M + Window Mullion = 2.37 M Total = 15.05 M	metre	15.05	66.00	993.30
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	37.34	19.00	709.46
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8758	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x 1.9 mm for uPVC window	each	4.00	345.00	1380.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	2.00	130.00	260.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	2.16	485.00	1047.60
0047	Labour for installation of uPVC extruded casement windows including scaffolding TOTAL	sqm	2.16	430.00	928.80
					11271.88 W
	Add 1 % Water charges on "W"				112.72
	TOTAL				11384.60 X
	Add GST (multiplying factor 0.1405) on "X"				1599.54
	TOTAL				12984.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				1947.62
	Total				14931.75 Z
	Add Cess @ 1% on "Z"				149.32
	Cost of 2.16 sqm				15081.07
	Cost of 1.00 sqm				6981.98
	Say				6982.00
9.147A.4	Casement window single panel with S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 0.75 sqm.) Detail of cost for uPVC casement window size 0.70 x 1.35 m = 0.95 sqm MATERIAL				
8126	uPVC extruded (big series) casement window frame size 67x60 mm i/c 5% wastage	metre	4.31	319.80	1378.34
8128	uPVC extruded (big series) casement window sash/window mullion size 67x80 mm i/c 5% wastage	metre	4.02	426.40	1714.13
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window	metre	3.83	123.00	471.09

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	sash i/c 5% wastage				
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window frame, sash, mullion. i/c 5% wastage	metre	7.73	71.00	548.83
	Window Frame = 4.01 M + Window Sash = 3.72 M				
	Total = 7.73 M				
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	15.99	19.00	303.81
3995	G.I fasteners 100 x 8 mm	each	10.00	14.00	140.00
8759	Stainless steel friction hinges (SS-304 grade) size 400 x 19 x 1.9 mm for uPVC window	each	2.00	365.00	730.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	1.00	130.00	130.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	0.95	485.00	460.75
0047	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	0.95	430.00	408.50
	TOTAL				6625.45 W
	Add 1 % Water charges on "W"				66.25
	TOTAL				6691.70 X
	Add GST (multiplying factor 0.1405) on "X"				940.18
	TOTAL				7631.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				1144.78
	Total				8776.67 Z
	Add Cess @ 1% on "Z"				87.77
	Cost of 0.95 sqm				8864.43
	Cost of 1.00 sqm				9330.98
	Say				9331.00
9.147A.5	Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).				
	Detail of Cost for uPVC casement window size 1.20 x 1.35 m = 1.62 sqm.				
	MATERIAL				
8126	uPVC extruded (big series) casement window frame size 67x60 mm i/c 5% wastage	metre	5.36	319.80	1714.13
8128	uPVC extruded (big series) casement window sash/window mullion size 67x	metre	9.13	426.40	3893.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	80 mm i/c 5% wastage Window Sash = 7.71 M + Window Mullion = 1.42 M Total = 9.13 M				
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window sash i/c 5% wastage	metre	7.34	123.00	902.82
3992	Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window frame, sash, mullion i/c 5% wastage Window Frame = 5.31 M + Window Sash = 7.11 M + Window Mullion = 1.41 M Total = 13.83 M	metre	13.83	71.00	981.93
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	30.62	19.00	581.78
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8758	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x 1.9 mm for uPVC window	each	4.00	345.00	1380.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	2.00	130.00	260.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	1.62	485.00	785.70
0047	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	1.62	430.00	696.60
	TOTAL				11703.99 W
	Add 1 % Water charges on "W"				117.04
	TOTAL				11821.03 X
	Add GST (multiplying factor 0.1405) on "X"				1660.85
	TOTAL				13481.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				2022.28
	Total				15504.17 Z
	Add Cess @ 1% on "Z"				155.04
	Cost of 1.62 sqm				15659.21
	Cost of 1.00 sqm				9666.18
	Say				9666.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147A.6	Casement cum fixed panel window having both end single casement panel, middle fixed panels and at top completely fixed ventilator with S.S friction hinges (350 x 19 x 1.9) made of (big series) frame 67 x 60 mm , sash 67 x 80 mm , & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead/double glazing bead of appropriate dimension. (Area of window above 3.00 sqm upto 5.00 sqm). Detail of cost for uPVC casement cum fixed window size 2.50 x 1.60 m = 4.00 sqm. MATERIAL				
8126	uPVC extruded (big series) casement window frame size 67x60 mm i/c 5% wastage	metre	8.61	319.80	2753.48
8128	uPVC extruded (big series) casement window sash/window mullion size 67x80 mm i/c 5% wastage Window Sash = 6.24 M + Window Mullion = 8.93 M Total = 15.17 M	metre	15.17	426.40	6468.49
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window sash i/c 5% wastage	metre	27.85	123.00	3425.55
3992	Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window frame, sash, mullion, big & small series sliding window frame i/c 5% wastage Window Frame = 8.31 M + Window Sash = 5.64 M + Window Mullion = 7.95 M Total = 21.90 M	metre	21.90	71.00	1554.90
7390	EPDM Gasket for uPVC window/door i/c 5% wastage	metre	83.45	19.00	1585.55
3995	G.I fasteners 100 x 8 mm	each	16.00	14.00	224.00
8758	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x 1.9 mm for uPVC window	each	4.00	345.00	1380.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window	each	2.00	130.00	260.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
0046	LABOUR Labour for fabrication of uPVC extruded casement windows including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	4.00	485.00	1940.00
0047	Labour for installation of uPVC extruded casement windows including scaffolding	sqm	4.00	430.00	1720.00
	TOTAL				21651.97 W
	Add 1 % Water charges on "W"				216.52
	TOTAL				21868.49 X
	Add GST (multiplying factor 0.1405) on "X"				3072.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				24941.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				3741.15
	Total				28682.16 Z
	Add Cess @ 1% on "Z"				286.82
	Cost of 4.00 sqm				28968.98
	Cost of 1.00 sqm				7242.25
	Say				7242.25

9.147B Providing and fixing factory made uPVC white colour fixed glazed windows/ ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), , uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately).

Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.

9.147B.1 Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)

Detail of cost for uPVC fixed window size 1.20 x 0.50 m = 0.60 sqm.

MATERIAL

8121	uPVC extruded (small series) fixed window frame size 47x50mm	metre	3.57	258.30	922.13
8122	uPVC extruded (small series) fixed window mullion size 47x68 mm	metre	0.53	282.90	149.94
8125	uPVC extruded glazing bead of appropriate dimension for small series fixed window	metre	3.99	98.40	392.62
	Sash				
	Galvanized iron reinforcement for :-				
3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series fixed window frame and mullion i/c 5% wastage	metre	4.25	66.00	280.50
	Window Frame = 3.27 M + Window Mullion = 0.98 M				
	Total = 4.25 M				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	8.38	19.00	159.22
3995	G.I fasteners 100 x 8 mm	each	8.00	14.00	112.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded fixed windows including drilling holes, fixing of fittings & hardware. hire charges of drill machine and electricity charges etc.	sqm	0.60	485.00	291.00
0047	Labour for installation of uPVC extruded fixed windows including scaffolding	sqm	0.60	430.00	258.00
	TOTAL				2905.40 W
	Add 1 % Water charges on "W"				29.05
	TOTAL				2934.46 X
	Add GST (multiplying factor 0.1405) on "X"				412.29
	TOTAL				3346.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				502.01
	Total				3848.76 Z
	Add Cess @ 1% on "Z"				38.49
	Cost of 0.60 sqm				3887.25
	Cost of 1.00 sqm				6478.75
	Say				6478.75

9.147C Providing and fixing factory made uPVC white colour casement/ Casement cum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealent shall be paid separately).

Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147C.1	Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm). Detail of cost for uPVC casement door size 0.90 x 2.10 m = 1.89 sqm. MATERIAL				
8127	uPVC extruded (big series) casement door frame size 67x64 mm i/c 5% wastage	metre	5.36	360.80	1933.89
8129	uPVC extruded (big series) casement door sash size 67x110 mm i/c 5% wastage	metre	6.02	516.60	3109.93
8130	uPVC extruded glazing bead of appropriate dimension for big series casement door sash i/c 5% wastage	metre	5.22	123.00	642.06
3992	Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window/door frame, sash, mullion, i/c 5% wastage	metre	5.14	71.00	364.94
3993	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door sash i/c 5% wastage	metre	5.72	97.00	554.84
7390	EPDM Gasket for uPVC window/door i/c 5% wastage	metre	22.91	19.00	435.29
3995	G.I fasteners 100 x 8 mm	each	10.00	14.00	140.00
8116	Zinc alloy (white powder coated) 3D Hinges for uPVC door	each	3.00	451.00	1353.00
8117	Zinc alloy (white powder coated) handles with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key for uPVC casement door	each set	1.00	2296.00	2296.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170	2.00	340.00
0046	LABOUR Labour for fabrication of uPVC extruded casement/fixed windows/and door including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	1.89	485.00	916.65
0047	Labour for installation of uPVC extruded casement windows and doors including scaffolding	sqm	1.89	430.00	812.70
TOTAL					12899.30 W
Add 1 % Water charges on "W"					128.99
TOTAL					13028.29 X
Add GST (multiplying factor 0.1405) on "X"					1830.48
TOTAL					14858.77 Y
Add 15 % Contractor's profit and overheads on "Y"					2228.82
Total					17087.58 Z
Add Cess @ 1% on "Z"					170.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.89 sqm				17258.46
	Cost of 1.00 sqm				9131.46
	Say				9131.45
9.147C.2	Casement door with top hung ventilator with 3D and S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame 67 x 64 mm, sash 67 x 110 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension.(Area of door upto 2.50 sqm)				
	Detail of cost for uPVC casement door size				
	0.90 x 2.70 m = 2.43 sqm				
	MATERIAL				
8127	uPVC extruded (big series) casement door frame size 67x64 mm i/c 5% wastage	metre	6.30	360.80	2273.04
8129	uPVC extruded (big series) casement door sash size 67x110 mm i/c 5% wastage	metre	6.01	516.60	3104.77
8128	uPVC extruded (big series) casement door sash/mullion size 67x80 mm i/c 5% wastage Door sash (67 mm x 80 mm) = 2.60 M + Door mullion (67 mm x 80 mm) = 0.95 M Total = 3.55 M	metre	3.55	426.40	1513.72
8130	uPVC extruded glazing bead of appropriate dimension for big series casement door sash i/c 5% wastage	metre	8.06	123.00	991.38
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door frame, sash, mullion, i/c 5% wastage Door Frame = 6.08 M + Ventilator Sash = 2.30 M + Mullion = 0.88 M Total = 9.26 M	metre	9.26	71.00	657.46
3993	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door sash i/c 5% wastage	metre	5.71	97.00	553.87
7390	EPDM Gasket for uPVC window/door i/c 5% wastage	metre	31.98	19.00	607.62
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8116	Zinc alloy (white powder coated) 3D Hinges for uPVC door	each	3.00	451.00	1353.00
8117	Zinc alloy (white powder coated) handles with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side kev for uPVC casement door	each set	1.00	2296.00	2296.00
8759	Stainless steel friction hinges (SS-304 grade) size 400 x 19 x 1.9 mm for uPVC window	each	2.00	365.00	730.00
8750	Zinc alloy (white powder coated) casement handle for uPVC window/ door	each	1.00	130.00	130.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170	2.00	340.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0046	Labour for fabrication of uPVC extruded casement doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	2.43	485.00	1178.55
0047	Labour for installation of uPVC extruded casement ventilator and doors including scaffolding	sqm	2.43	430.00	1044.90
	TOTAL				16942.31 W
	Add 1 % Water charges on "W"				169.42
	TOTAL				17111.73 X
	Add GST (multiplying factor 0.1405) on "X"				2404.20
	TOTAL				19515.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				2927.39
	Total				22443.32 Z
	Add Cess @ 1% on "Z"				224.43
	Cost of 2.43 sqm				22667.75
	Cost of 1.00 sqm				9328.29
	Say				9328.30
9.147D	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately)				
Note:	For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
9.147D.1	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)				

Detail of cost for uPVC sliding window size 1.20 x 1.35 m = 1.62 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8133	uPVC extruded (small series) 2 track sliding window frame size 52x44 mm i/c 5% wastage	metre	5.36	285.00	1527.60
8137	uPVC extruded (small series) 2 track sliding window sash size 32x60mm i/c 5% wastage	metre	7.90	265.00	2093.50
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	2.69	80.00	215.20
8131	uPVC extruded glazing bead of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	6.92	60.00	415.20
3991	Galvanized iron reinforcement for Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series 2 track sliding window frame and sash i/c 5% wastage 2 Track Sliding (Window Frame = 5.06 M + Window Sash = 7.30 M) Total = 12.36 M	metre	12.36	66.00	815.76
7390	EPDM Gasket for uPVC window/door i/c 5% wastage	metre	13.84	19.00	262.96
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	18.48	20.00	369.60
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	4.00	56.00	224.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	1.62	485.00	785.70
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	1.62	430.00	696.60
	TOTAL				8124.12 W
	Add 1 % Water charges on "W"				81.24
	TOTAL				8205.36 X
	Add GST (multiplying factor 0.1405) on "X"				1152.85
	TOTAL				9358.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				1403.73
	Total				10761.95 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				107.62
	Cost of 1.62 sqm				10869.57
	Cost of 1.00 sqm				6709.61
	Say				6709.60
9.147D.2	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).				
	Detail of cost for uPVC sliding window size 1.20 x 1.35 m = 1.62 sqm.				
	MATERIAL				
8135	uPVC extruded (small series) 3 track sliding window frame size 92x44 mm i/c 5% wastage	metre	5.06	380.00	1922.80
8137	uPVC extruded (small series) 3 track sliding window sash size 32x60mm i/c 5% wastage	metre	11.84	265.00	3137.60
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	4.04	80.00	323.20
8131	uPVC extruded glazing bead of appropriate dimension for small series sliding window sash i/c 5% wastage	metre	10.38	60.00	622.80
3991	Galvanized iron reinforcement for Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series sliding window frame and sash i/c 5% wastage 3 Track Sliding (Window Frame = 9.52 m + Window Sash = 10.94 m) Total = 20.46 M	metre	20.46	66.00	1350.36
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	20.76	19.00	394.44
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	27.72	20.00	554.40
3995	G.I fasteners 100 x 8 mm	each	12.00	14.00	168.00
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	6.00	56.00	336.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricitv charges etc.	sqm	1.62	485.00	785.70
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	1.62	430.00	696.60
	TOTAL				10841.90 W
	Add 1 % Water charges on "W"				108.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				10950.32 X
	Add GST (multiplying factor 0.1405) on "X"				1538.52
	TOTAL				12488.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				1873.33
	Total				14362.16 Z
	Add Cess @ 1% on "Z"				143.62
	Cost of 1.62 sqm				14505.79
	Cost of 1.00 sqm				8954.19
	Say				8954.20
9.147D.3	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension . (Area of window above 1.75 sqm upto 2.50 sqm).				
	Detail of cost for uPVC sliding window size 1.50 x 1.35 m = 2.03sqm				
	MATERIAL				
8134	uPVC extruded (big series) 2 track sliding window frame size 67x50mm i/c 5% wastage	metre	5.99	385.00	2306.15
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm i/c 5% wastage	metre	8.36	325.00	2717.00
8141	uPVC extruded interlock of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	2.65	90.00	238.50
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window Sash i/c 5% wastage	metre	7.64	85.00	649.40
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window frame (2 track sliding window frame i/c 5% wastage)	metre	5.69	71.00	403.99
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window sash (2 track sliding window sash i/c 5% wastage)	metre	7.76	86.00	667.36
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	15.28	19.00	290.32
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	19.37	20.00	387.40
3995	G.I fasteners 100 x 8 mm	each	14.00	14.00	196.00
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	4.00	56.00	224.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	2.03	485.00	984.55
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	2.03	430.00	872.90
	TOTAL				10487.57 W
	Add 1 % Water charges on "W"				104.88
	TOTAL				10592.45 X
	Add GST (multiplying factor 0.1405) on "X"				1488.24
	TOTAL				12080.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				1812.10
	Total				13892.79 Z
	Add Cess @ 1% on "Z"				138.93
	Cost of 2.03 sqm				14031.71
	Cost of 1.00 sqm				6912.17
	Say				6912.15
9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).				
	Detail of cost for uPVC sliding window size 1.80 x 1.35 m = 2.43 sqm.				
	MATERIAL				
8136	uPVC extruded (big series) 3 track sliding window frame size 116x45mm i/c 5% wastage	metre	6.62	530.00	3508.60
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm i/c 5% wastage	metre	13.49	325.00	4384.25
8141	uPVC extruded interlock of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	3.98	90.00	358.20
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window	metre	11.91	85.00	1012.35
	Sash i/c 5% wastage				
	Galvanized iron reinforcement for				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window frame (3 track sliding window frame i/c 5% wastage)	metre	12.64	71.00	897.44
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window sash (3 track sliding window sash i/c 5% wastage)	metre	12.59	86.00	1082.74
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	23.81	19.00	452.39
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	30.96	20.00	619.20
3995	G.I fasteners 100 x 8 mm	each	16.00	14.00	224.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	6.00	56.00	336.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricitv charges etc.	sqm	2.43	485.00	1178.55
0047	Labour for installation of uPVC extruded casement/ sliding windows including scaffolding	sqm	2.43	430.00	1044.90
	TOTAL				15648.62 W
	Add 1 % Water charges on "W"				156.49
	TOTAL				15805.11 X
	Add GST (multiplying factor 0.1405) on "X"				2220.62
	TOTAL				18025.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				2703.86
	Total				20729.58 Z
	Add Cess @ 1% on "Z"				207.30
	Cost of 2.43 sqm				20936.88
	Cost of 1.00 sqm				8616.00
	Say				8616.00
9.147D.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)				
	Detail of cost for uPVC sliding window size 1.80 x 1.35 m = 2.43 sqm.				
	MATERIAL				
8136	uPVC extruded (big series) 3 track sliding window frame size 116x45mm i/c 5% wastage	metre	6.62	530.00	3508.60
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm i/c 5% wastage	metre	11.85	325.00	3851.25
8141	uPVC extruded interlock of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	5.3	90.00	477.00
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window Sash i/c 5% wastage	metre	10.26	85.00	872.10
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 $\pm$ 0.2 mm) thick reinforcement for big series sliding window frame (3 track sliding window frame i/c 5% wastage)	metre	12.64	71.00	897.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window sash (3 track sliding window sash i/c 5% wastage)	metre	10.95	86.00	941.70
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	20.52	19.00	389.88
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	29.00	20.00	580.00
3995	G.I fasteners 100 x 8 mm	each	16.00	14.00	224.00
8751	Zinc alloy (white powder coated) touch lock with hook for uPVC window	each	2.00	105.00	210.00
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	6.00	56.00	336.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	2.43	485.00	1178.55
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	2.43	430.00	1044.90
	TOTAL				14851.42 W
	Add 1 % Water charges on "W"				148.51
	TOTAL				14999.93 X
	Add GST (multiplying factor 0.1405) on "X"				2107.49
	TOTAL				17107.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				2566.11
	Total				19673.54 Z
	Add Cess @ 1% on "Z"				196.74
	Cost of 2.43 sqm				19870.27
	Cost of 1.00 sqm				8177.07
	Say				8177.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147E	Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately).				
Note:	For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
9.147E.1	Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.) Detail of cost for uPVC sliding window size 1.50 x 2.40 m = 3.60 sqm. MATERIAL				
8134	uPVC extruded (big series) 2 track sliding window frame size 67x50mm i/c 5% wastage	metre	8.19	385.00	3153.15
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm i/c 5% wastage	metre	12.77	325.00	4150.25
8141	uPVC extruded interlock of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	4.86	90.00	437.40
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window Sash i/c 5% wastage	metre	12.04	85.00	1023.40
3992	Galvanized iron reinforcement for Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window frame (2 track sliding window frame i/c 5% wastage)	metre	7.89	71.00	560.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window sash (2 track sliding window sash i/c 5% wastage)	metre	12.17	86.00	1046.62
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	24.08	19.00	457.52
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	30.40	20.00	608.00
3995	G.I fasteners 100 x 8 mm	each	16.00	14.00	224.00
8118	Zinc alloy (white powder coated) handles along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding window	each set	2.00	1394.00	2788.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding window	each	4.00	95.00	380.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	3.60	485.00	1746.00
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	3.60	430.00	1548.00
	TOTAL				18462.53 W
	Add 1 % Water charges on "W"				184.63
	TOTAL				18647.16 X
	Add GST (multiplying factor 0.1405) on "X"				2619.93
	TOTAL				21267.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				3190.06
	Total				24457.14 Z
	Add Cess @ 1% on "Z"				244.57
	Cost of 3.60 sqm				24701.71
	Cost of 1.00 sqm				6861.59
	Say				6861.60
9.147E.2	Two track four panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 4.00 sqm upto 8.00 sqm).				
	Detail of cost for uPVC sliding window size 3.00 x 2.40 m = 7.20 sqm.				
	MATERIAL				
8134	uPVC extruded (big series) 2 track sliding window frame size 67x50mm i/c 5% wastage	metre	11.34	385.00	4365.90
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm i/c 5% wastage	metre	25.75	325.00	8368.75
8141	uPVC extruded interlock of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	9.71	90.00	873.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8142	uPVC extruded inline adaptor of appropriate dimension for big series sliding window sash i/c 5% wastage	metre	2.40	90.00	216.00
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window Sash i/c 5% wastage	metre	24.31	85.00	2066.35
3992	Galvanized iron reinforcement for Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window frame (2 track sliding window frame i/c 5% wastage)	metre	11.04	71.00	783.84
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window sash (2 track sliding window sash i/c 5% wastage)	metre	24.55	86.00	2111.30
7390	EPDM Gasket for uPVC window i/c 5% wastage	metre	48.62	19.00	923.78
8773	Wool pile/ weather pile strip for uPVC sliding window i/c 5% wastage	metre	61.21	20.00	1224.20
3995	G.I fasteners 100 x 8 mm	each	24.00	14.00	336.00
8118	Zinc alloy (white powder coated) handles along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding window	each set	2.00	1394.00	2788.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding window	each	8.00	95.00	760.00
8754	Zinc alloy (white powder coated) crescent lock for uPVC sliding window	each	2.00	115.00	230.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
0046	LABOUR Labour for fabrication of uPVC extruded sliding windows including drilling holes, fixing of fittings & hardwares, hire charges of drill machine and electricity charges etc.	sqm	7.20	485.00	3492.00
0047	Labour for installation of uPVC extruded sliding windows including scaffolding	sqm	7.20	430.00	3096.00
	TOTAL				31976.02 W
	Add 1 % Water charges on "W"				319.76
	TOTAL				32295.78 X
	Add GST (multiplying factor 0.1405) on "X"				4537.56
	TOTAL				36833.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				5525.00
	Total				42358.34 Z
	Add Cess @ 1% on "Z"				423.58
	Cost of 7.20 sqm				42781.92
	Cost of 1.00 sqm				5941.93
	Say				5941.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147F	Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) crescent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately).				
Note:	For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
9.147F.1	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm) Detail of cost for sliding door size 2.00 x 2.10 m = 4.20 sqm.				
	MATERIAL				
8134	uPVC extruded (big series) 2 track sliding door frame size 67x50mm i/c 5% wastage	metre	8.61	385.00	3314.85
8143	uPVC extruded 2 track sliding door sash (big series) size 46x82mm i/c 5% wastage	metre	12.6	350.00	4410.00
8141	uPVC extruded interlock of appropriate dimension for big series sliding door sash i/c 5% wastage	metre	4.23	90.00	380.70
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding door Sash i/c 5% wastage	metre	11.54	85.00	980.90
	Galvanized iron reinforcement for				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door frame (2 track sliding door frame i/c 5% wastage)	metre	8.31	71.00	590.01
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door sash (2 track sliding door sash i/c 5% wastage)	metre	12.00	86.00	1032.00
7390	EPDM Gasket for uPVC door i/c 5% wastage	metre	23.08	19.00	438.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8773	Wool pile/ weather pile strip for uPVC sliding door i/c 5% wastage	metre	29.43	20.00	588.60
3995	G.I fasteners 100 x 8 mm	each	18.00	14.00	252.00
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	2.00	1150.00	2300.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door	each	4.00	95.00	380.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded sliding doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	4.20	485.00	2037.00
0047	Labour for installation of uPVC extruded sliding doors including scaffolding	sqm	4.20	430.00	1806.00
	TOTAL				18850.58 W
	Add 1 % Water charges on "W"				188.51
	TOTAL				19039.09 X
	Add GST (multiplying factor 0.1405) on "X"				2674.99
	TOTAL				21714.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				3257.11
	Total				24971.19 Z
	Add Cess @ 1% on "Z"				249.71
	Cost of 4.20 sqm				25220.90
	Cost of 1.00 sqm				6004.98
	Say				6005.00
9.147F.2	Two track four panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 8.00 sqm upto 10.00 sqm).				
	Detail of cost for uPVC sliding door size 4.00 x 2.10 m = 8.40 sqm.				
	MATERIAL				
8134	uPVC extruded (big series) 2 track sliding door frame size 67x50mm i/c 5% wastage	metre	12.81	385.00	4931.85
8143	uPVC extruded 2 track sliding door sash (big series) size 46x82mm i/c 5% wastage	metre	25.42	350.00	8897.00
8141	uPVC extruded interlock of appropriate dimension for big series sliding door sash i/c 5% wastage	metre	8.45	90.00	760.50
8142	uPVC extruded inline adaptor of appropriate dimension for big series sliding door sash	metre	2.10	90.00	189.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding door Sash	metre	23.3	85.00	1980.50
3992	Galvanized iron reinforcement for :- Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door frame (2 track sliding door frame i/c 5% wastage)	metre	12.51	71.00	888.21
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door sash (2 track sliding door sash i/c 5% wastage)	metre	24.22	86.00	2082.92
7390	EPDM Gasket for uPVC door i/c 5% wastage	metre	46.6	19.00	885.40
8773	Wool pile/ weather pile strip for uPVC sliding door i/c 5% wastage	metre	59.29	20.00	1185.80
3995	G.I fasteners 100 x 8 mm	each	26.00	14.00	364.00
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	2.00	1150.00	2300.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door	each	8.00	95.00	760.00
8754	Zinc alloy (white powder coated) crescent lock for uPVC sliding door	each	2.00	115.00	230.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material LABOUR	L.S.	170.00	2.00	340.00
0046	Labour for fabrication of uPVC extruded sliding doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	8.40	485.00	4074.00
0047	Labour for installation of uPVC extruded sliding doors including scaffolding	sqm	8.40	430.00	3612.00
	TOTAL				33481.18 W
	Add 1 % Water charges on "W"				334.81
	TOTAL				33815.99 X
	Add GST (multiplying factor 0.1405) on "X"				4751.15
	TOTAL				38567.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				5785.07
	Total				44352.21 Z
	Add Cess @ 1% on "Z"				443.52
	Cost of 8.40 sqm				44795.73
	Cost of 1.00 sqm				5332.83
	Say				5332.85
9.147F.3	Three track three panels sliding door made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead of appropriate dimension. (Area of door above 5.00 sqm)				
	Detail of cost for uPVC sliding door size 3.00 x 2.10 m = 6.30 sqm.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8136	uPVC extruded (big series) 3 track sliding door frame size 116x45mm i/c 5% wastage	metre	10.71	530.00	5676.30
8143	uPVC extruded 3 track sliding door sash (big series) size 46x82mm i/c 5% wastage	metre	19.09	350.00	6681.50
8141	uPVC extruded interlock of appropriate dimension for big series sliding door sash i/c 5% wastage	metre	8.45	90.00	760.50
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding door i/c 5% wastage	metre	17.51	85.00	1488.35
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door frames (3 track sliding door frame i/c 5% wastage)	metre	20.82	71.00	1478.22
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door sash (3 track sliding door sash i/c 5% wastage)	metre	18.19	86.00	1564.34
7390	EPDM Gasket for uPVC door i/c 5% wastage	metre	35.01	19.00	665.19
8773	Wool pile/ weather pile strip for uPVC sliding door i/c 5% wastage	metre	46.63	20.00	932.60
3995	G.I fasteners 100 x 8 mm	each	24.00	14.00	336.00
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	2.00	1150.00	2300.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door	each	6.00	95.00	570.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	6.30	485.00	3055.50
0047	Labour for installation of uPVC extruded sliding doors including scaffolding	sqm	6.30	430.00	2709.00
	TOTAL				28557.50 W
	Add 1 % Water charges on "W"				285.58
	TOTAL				28843.08 X
	Add GST (multiplying factor 0.1405) on "X"				4052.45
	TOTAL				32895.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				4934.33
	Total				37829.86 Z
	Add Cess @ 1% on "Z"				378.30
	Cost of 6.30 sqm				38208.15
	Cost of 1.00 sqm				6064.79
	Say				6064.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.147F.4	Three track three panels sliding door with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm) Detail of cost for uPVC sliding door size 2.00 x 2.10 m = 4.20 sqm MATERIAL				
8136	uPVC extruded (big series) 3 track sliding door frame size 116x45mm i/c 5% wastage	metre	8.61	530.00	4563.30
8143	uPVC extruded 3 track sliding door sash (big series) size 46x82mm i/c 5% wastage	metre	18.9	350.00	6615.00
8141	uPVC extruded interlock of appropriate dimension for big series sliding door sash i/c 5% wastage	metre	6.34	90.00	570.60
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding door Sash i/c 5% wastage	metre	17.82	85.00	1514.70
	Galvanized iron reinforcement for :-				
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door frame (3 track sliding door frame i/c 5% wastage)	metre	8.31	71.00	590.01
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding door sash (3 track sliding door sash i/c 5% wastage)	metre	18.00	86.00	1548.00
7390	EPDM Gasket for uPVC door i/c 5% wastage	metre	36.64	19.00	696.16
8773	Wool pile/ weather pile strip for uPVC sliding door i/c 5% wastage	metre	44.14	20.00	882.80
3995	G.I fasteners 100 x 8 mm	each	18.00	14.00	252.00
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	2.00	1150.00	2300.00
8749	Zinc alloy (white powder coated) touch lock with hook for wire mesh shutter	each	1.00	120.00	120.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door	each	6.00	95.00	570.00
9999	Sundries, plastic packers, plastic caps, SS screws and carriage of material	L.S.	170.00	2.00	340.00
	LABOUR				
0046	Labour for fabrication of uPVC extruded sliding doors including drilling holes, fixing of fittings & hardware, hire charges of drill machine and electricity charges etc.	sqm	4.20	485.00	2037.00
0047	Labour for installation of uPVC extruded sliding doors including scaffolding	sqm	4.20	430.00	1806.00
	TOTAL				24405.57 W
	Add 1 % Water charges on "W"				244.06
	TOTAL				24649.63 X
	Add GST (multiplying factor 0.1405) on "X"				3463.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				28112.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				4216.93
	Total				32329.83 Z
	Add Cess @ 1% on "Z"				323.30
	Cost of 4.20 sqm				32653.13
	Cost of 1.00 sqm				7774.56
	Say				7774.55
9.148	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.				
9.148.1	200 x 19 x 1.9 mm				
	Details of cost for 10 Nos				
	MATERIAL				
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	10.00	205.00	2050.00
8647	Stainless steal screws 30mm x4mm.	100 Nos	0.40	32.00	12.80
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2165.61 W
	Add 1 % Water charges on "W"				21.66
	TOTAL				2187.26 X
	Add GST (multiplying factor 0.1405) on "X"				307.31
	TOTAL				2494.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				374.19
	Total				2868.76 Z
	Add Cess @ 1% on "Z"				28.69
	Cost of 10 Nos				2897.45
	Cost of 1 No				289.74
	Say				289.75
9.148.2	250 x 19 x 1.9 mm				
	Details of cost for 10 Nos				
	MATERIAL				
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	10.00	230.00	2300.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8647	Stainless steal screws 30mm x4mm.	100 Nos	0.40	32.00	12.80
9977	Carriage of materials LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2415.61 W
	Add 1 % Water charges on "W"				24.16
	TOTAL				2439.76 X
	Add GST (multiplying factor 0.1405) on "X"				342.79
	TOTAL				2782.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				417.38
	Total				3199.93 Z
	Add Cess @ 1% on "Z"				32.00
	Cost of 10 Nos				3231.93
	Cost of 1 No				323.19
	Say				323.20
9.148.3	300 x 19 x 1.9 mm Details of cost for 10 Nos MATERIAL				
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	10.00	245.00	2450.00
8647	Stainless steal screws 30mm x4mm.	100 Nos	0.40	32.00	12.80
9977	Carriage of materials LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2565.61 W
	Add 1 % Water charges on "W"				25.66
	TOTAL				2591.26 X
	Add GST (multiplying factor 0.1405) on "X"				364.07
	TOTAL				2955.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				443.30
	Total				3398.63 Z
	Add Cess @ 1% on "Z"				33.99
	Cost of 10 Nos				3432.62
	Cost of 1 No				343.26
	Say				343.25
9.148.4	350 x 19 x 1.9 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos				
	MATERIAL				
8758	Stainless steel friction hinge of size	each	10.00	345.00	3450.00
	350 mm x 19 x 1.9 mm for uPVC windows				
8647	Stainless steal screws 30mm x4mm.	100	0.40	32.00	12.80
		Nos			
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				3565.61 W
	Add 1 % Water charges on "W"				35.66
	TOTAL				3601.26 X
	Add GST (multiplying factor 0.1405) on "X"				505.98
	TOTAL				4107.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				616.09
	Total				4723.33 Z
	Add Cess @ 1% on "Z"				47.23
	Cost of 10 Nos				4770.56
	Cost of 1 No				477.06
	Say				477.05
9.148.5	400 x 19 x 1.9 mm				
	Details of cost for 10 Nos				
	MATERIAL				
8759	Stainless steel friction hinge of size	each	10.00	365.00	3650.00
	400 mm x 19 x 1.9 mm for uPVC windows				
8647	Stainless steal screws 30mm x4mm.	100	0.40	32.00	12.80
		Nos			
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				3765.61 W
	Add 1 % Water charges on "W"				37.66
	TOTAL				3803.26 X
	Add GST (multiplying factor 0.1405) on "X"				534.36
	TOTAL				4337.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				650.64
	Total				4988.26 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				49.88
	Cost of 10 Nos				5038.15
	Cost of 1 No				503.81
	Say				503.80
9.149	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	10.00	130.00	1300.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
9999	Sundries(Screws)	L.S.	3.00	2.00	6.00
	LABOUR				
0041	Carpenter (average)	day	0.125	374.50	46.81
	TOTAL				1361.65 W
	Add 1 % Water charges on "W"				13.62
	TOTAL				1375.27 X
	Add GST (multiplying factor 0.1405) on "X"				193.23
	TOTAL				1568.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				235.27
	Total				1803.77 Z
	Add Cess @ 1% on "Z"				18.04
	Cost of 10 Nos				1821.81
	Cost of 1 No				182.18
	Say				182.20
9.150	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	10.00	105.00	1050.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
9999	Sundries(Screws)	L.S.	3.00	2.00	6.00
	LABOUR				
0041	Carpenter (average)	day	0.125	374.50	46.81
	TOTAL				1111.65 W
	Add 1 % Water charges on "W"				11.12
	TOTAL				1122.77 X
	Add GST (multiplying factor 0.1405) on "X"				157.75
	TOTAL				1280.52 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				192.08
	Total				1472.60 Z
	Add Cess @ 1% on "Z"				14.73
	Cost of 10 Nos				1487.32
	Cost of 1 No				148.73
	Say				148.75
9.151	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
8752	Zinc alloy rollers for uPVC windows	each	10.00	56.00	560.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
9999	Sundries(Screws)	L.S.	3.00	2.00	6.00
	LABOUR				
0041	Carpenter (average)	day	0.125	374.50	46.81
	TOTAL				621.65 W
	Add 1 % Water charges on "W"				6.22
	TOTAL				627.87 X
	Add GST (multiplying factor 0.1405) on "X"				88.22
	TOTAL				716.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.41
	Total				823.50 Z
	Add Cess @ 1% on "Z"				8.23
	Cost of 10 Nos				831.73
	Cost of 1 No				83.17
	Say				83.15
9.152	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
8753	Zinc alloy rollers for uPVC door	each	10.00	95.00	950.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
9999	Sundries(Screws)	L.S.	3.00	2.00	6.00
	LABOUR				
0041	Carpenter (average)	day	0.125	374.50	46.81
	TOTAL				1011.65 W
	Add 1 % Water charges on "W"				10.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1021.77 X
	Add GST (multiplying factor 0.1405) on "X"				143.56
	TOTAL				1165.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				174.80
	Total				1340.13 Z
	Add Cess @ 1% on "Z"				13.40
	Cost of 10 Nos				1353.53
	Cost of 1 No				135.35
	Say				135.35
9.153	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	10.00	115.00	1150.00
9977	Carriage of materials	L.S.	4.42	2.00	8.84
9999	Sundries(Screws)	L.S.	3.00	2.00	6.00
	LABOUR				
0041	Carpenter (average)	day	0.125	374.50	46.81
	TOTAL				1211.65 W
	Add 1 % Water charges on "W"				12.12
	TOTAL				1223.77 X
	Add GST (multiplying factor 0.1405) on "X"				171.94
	TOTAL				1395.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				209.36
	Total				1605.06 Z
	Add Cess @ 1% on "Z"				16.05
	Cost of 10 Nos				1621.12
	Cost of 1 No				162.11
	Say				162.10
9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.4x2.4 m panel=5.76m² or 58.35 Kg				
	MATERIAL				
	M.S.Pipe section @ 10.13 kg/sqm=				
	58.35 Kg+				
	Add 5% wastage = 2.92 Kg				
	Total = 61.27 Kg				
4009	Mild steel tubes hot finished welded type	kilo gram	61.27	57.00	3492.39
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00	15.00	300.00
	Steel primer				
	5 x 2 x 2.40 x 0.05 x 4 = 4.80 sqm				
13.50.3	Rate as per Item No.13.50.3 of SH:FINISHING	sqm	4.80	33.30	159.85 A
	LABOUR				
0019	Fitter (grade 1)	day	0.40	476.00	190.40
0013	Blacksmith 2nd class	day	0.53	374.50	198.49
0017	Beldar	day	1.23	320.83	394.62
0010	Bandhani	day	0.06	320.83	19.25
9999	Sundries	L.S.	33.56	2.00	67.12
	TOTAL				4822.11 W
	Add 1 % Water charges on "W-A"	4662.27			46.62
	TOTAL				4868.73 X
	Add GST (multiplying factor 0.1405) on "X-A"	4708.89			661.60
	TOTAL				5530.33 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5370.49			805.57
	Total				6335.91 Z
	Add Cess @ 1% on "Z-A"	6176.06			61.76
	Cost of 58.35 kg				6397.67
	Cost of 1 kg				109.64
	Say				109.65
9.155	Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mm thick: Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587				
	Details of cost for 0.66 sqm				
	Detail of cost for a door with 2/3rd paneling. 200 x 108 cm = 2.16 sqm				
	Pannel area 4x45.1x36.55cm = 0.66 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Both side laminated 12mm thick MDF Board 4x47.2x38.65 cm = 0.73 sqm Adding 10% wastage = 0.07 sqm Total= 0.80 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	0.80	460.00	368.00
9999	Sundries (Carriage of MDF board) LABOUR	L.S.	1.82	2.00	3.64
0014	Carpenter 1 st class	day	0.57	476.00	271.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				651.80 W
	Add 1 % Water charges on "W"				6.52
	TOTAL				658.32 X
	Add GST (multiplying factor 0.1405) on "X"				92.49
	TOTAL				750.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.62
	Total				863.43 Z
	Add Cess @ 1% on "Z"				8.63
	Cost of 0.66 sqm.				872.07
	Cost of 1 sqm.				1321.31
	Say				1321.30
9.156	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).				
9.156.1	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587				
	Details of cost for 7.00 sqm Detail of cost for 350x200 cm = 7sqm MATERIAL 12 mm thick both side laminated board = 7.00 sqm Add for wastage @5% = 0.35 sqm Total= 7.35 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	7.35	460.00	3381.00
9999	Sundries (Carriage of MDF board)	L.S.	13.52	2.00	27.04
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				4119.74 W
	Add 1 % Water charges on "W"				41.20
	TOTAL				4160.94 X
	Add GST (multiplying factor 0.1405) on "X"				584.61
	TOTAL				4745.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				711.83
	Total				5457.38 Z
	Add Cess @ 1% on "Z"				54.57
	Cost of 7.00 sqm.				5511.96
	Cost of 1 sqm.				787.42
	Say				787.40
9.156.2	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587				
	Detail of cost for 350x200 cm = 7 sqm				
	MATERIAL				
	18 mm thick both side laminated board				
	= 7.00 sqm				
	Add for wastage @5% = 0.35 sqm				
	Total= 7.35 sqm				
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	7.35	597.00	4387.95
9999	Sundries (Carriage of MDF board)	L.S.	19.76	2.00	39.52
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				5139.17 W
	Add 1 % Water charges on "W"				51.39
	TOTAL				5190.56 X
	Add GST (multiplying factor 0.1405) on "X"				729.27
	TOTAL				5919.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				887.98
	Total				6807.81 Z
	Add Cess @ 1% on "Z"				68.08
	Cost of 7.00 sqm.				6875.89
	Cost of 1 sqm.				982.27
	Say				982.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.157	Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).				
9.157.1	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587				
	Details of cost for 0.60 sqm.				
	Detail of cost for 4 Nos. 75x20 cm shelves				
	= 0.60 sqm				
	MATERIAL				
	18 mm Thick MDF Board out side laminated =				
	0.60 sqm				
	Add wastage @ 5% = 0.03 sqm				
	Total= 0.63 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	0.63	565.00	355.95
	PVC edge bending tape 2.00 mm thick				
	4X0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.00	20.00	60.00
9999	Sundries (Carriage of MDF board)	L.S.	0.91	2.00	1.82
	LABOUR				
0015	Carpenter 2nd class	day	0.11	374.50	41.20
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries and screws	L.S.	7.80	2.00	15.60
	TOTAL				493.81 W
	Add 1 % Water charges on "W"				4.94
	TOTAL				498.75 X
	Add GST (multiplying factor 0.1405) on "X"				70.07
	TOTAL				568.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.32
	Total				654.15 Z
	Add Cess @ 1% on "Z"				6.54
	Cost of 0.60 sqm.				660.69
	Cost of 1 sqm.				1101.16
	Say				1101.15
9.157.2	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 0.60 sqm. Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm				
	MATERIAL				
	25 mm Thick MDF Board outside laminated = 0.60 sqm				
	Add wastage @ 5% = 0.03 sqm				
	Total= 0.63 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	0.63	860.00	541.80
	PVC edge bending tape 2.00 mm thick 4X 0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.00	20.00	60.00
9999	Sundries (Carriage of MDF board)	L.S.	1.82	2.00	3.64
	LABOUR				
0015	Carpenter 2nd class	day	0.11	374.50	41.20
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries and screws	L.S.	7.80	2.00	15.60
	TOTAL				681.48 W
	Add 1 % Water charges on "W"				6.81
	TOTAL				688.30 X
	Add GST (multiplying factor 0.1405) on "X"				96.71
	TOTAL				785.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				117.75
	Total				902.76 Z
	Add Cess @ 1% on "Z"				9.03
	Cost of 0.60 sqm.				911.78
	Cost of 1 sqm.				1519.64
	Say				1519.65

9.158 Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.

9.158.1 12 mm thick.

Details of cost for 10.00 sqm

MATERIAL

12 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm

Add wastage @10 % = 1.00 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total= 11.00 sqm				
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	11.00	430.00	4730.00
9999	Sundries (Carriage of MDF board)	L.S.	13.52	2.00	27.04
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	25.00	1375.00
	TOTAL				7124.01 W
	Add 1 % Water charges on "W"				71.24
	TOTAL				7195.25 X
	Add GST (multiplying factor 0.1405) on "X"				1010.93
	TOTAL				8206.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				1230.93
	Total				9437.11 Z
	Add Cess @ 1% on "Z"				94.37
	Cost of 10.00 sqm.				9531.48
	Cost of 1 sqm.				953.15
	Say				953.15
9.158.2	18 mm thick.				
	Details of cost for 10.00 sqm				
	MATERIAL				
	18 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	11.00	565.00	6215.00
9999	Sundries (Carriage of MDF board)	L.S.	13.52	2.00	27.04
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	25.00	1375.00
	TOTAL				8609.01 W
	Add 1 % Water charges on "W"				86.09

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				8695.10 X
	Add GST (multiplying factor 0.1405) on "X"				1221.66
	TOTAL				9916.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				1487.51
	Total				11404.27 Z
	Add Cess @ 1% on "Z"				114.04
	Cost of 10.00 sqm.				11518.31
	Cost of 1 sqm.				1151.83
	Say				1151.85
9.158.3	25 mm thick.				
	Details of cost for 10.00 sqm				
	MATERIAL				
	25 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	11.00	860.00	9460.00
9999	Sundries (Carriage of MDF board)	L.S.	13.52	2.00	27.04
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	1.28	374.50	479.36
0017	Beldar	day	1.43	320.83	458.79
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	25.00	1375.00
	TOTAL				11854.01 W
	Add 1 % Water charges on "W"				118.54
	TOTAL				11972.55 X
	Add GST (multiplying factor 0.1405) on "X"				1682.14
	TOTAL				13654.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				2048.20
	Total				15702.89 Z
	Add Cess @ 1% on "Z"				157.03
	Cost of 10.00 sqm.				15859.92
	Cost of 1 sqm.				1585.99
	Say				1586.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.159	Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked with one side decorative and other side balancing lamination for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISI marked nickel plated bright finishing M.S. piano hinges conforming to IS:3818 marked with necessary screw etc all complete. Detail of Cost for 2.20 sqm (2.20 m x 1.00 m) MATERIAL				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	2.20	860.00	1892.00
9999	Sundries (Carriage of MDF board) PVC edge bending tape 2.00 mm thick 2x(2.20+1.00)=6.40 metre	L.S.	26.94	2.00	53.88
2489	PVC edge bending tape 2.00 mm thick Fitting for a door of 2.20 m x1.00 m Total = 2(2.20) = 4.40 metre	metre	6.40	20.00	128.00
608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.40	39.00	171.60
639	Bright finished or black enameled mild steel screws 25 mm LABOUR	100 Nos	1.25	36.00	45.00
	For fixing shutter and fittings				
0041	Carpenter (average)	day	0.55	374.50	205.98
0017	Beldar	day	0.55	320.83	176.46
	TOTAL				2672.91 W
	Add 1 % Water charges on "W"				26.73
	TOTAL				2699.64 X
	Add GST (multiplying factor 0.1405) on "X"				379.30
	TOTAL				3078.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				461.84
	Total				3540.78 Z
	Add Cess @ 1% on "Z"				35.41
	Cost of 2.20 sqm.				3576.19
	Cost of 1 sqm.				1625.54
	Say				1625.55
9.160	Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) conforming to IS: 14587:1998 marked, with (one side decorative and other side balancing lamination and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. all complete.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.160.1	18 mm thick.				
	Details of cost for 6.00 sqm				
	Detail of cost for skirting 200 mm wide & 30 m long				
	Area 0.20 mx30 m = 6.0 sqm				
	Area 0.20 m x30 m = 6.0 sqm				
	Add wastage @ 10 % = 0.60 sqm				
	Total = 6.60 sqm				
	MATERIAL				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	6.60	565.00	3729.00
9999	Sundries (Carriage of MDF board)	L.S.	8.11	2.00	16.22
2489	PVC edge bending tape 2.00 mm thick	metre	30.00	20.00	600.00
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	25.00	2550.00
9999	Sundries (Labour for drilling hole)	L.S.	130.00	2.00	260.00
	LABOUR				
0015	Carpenter 2nd class	day	0.77	374.50	288.37
0017	Beldar	day	0.86	320.83	275.91
9999	Sundries (screws and sand paper)	L.S.	53.82	2.00	107.64
	TOTAL				7827.14 W
	Add 1 % Water charges on "W"				78.27
	TOTAL				7905.41 X
	Add GST (multiplying factor 0.1405) on "X"				1110.71
	TOTAL				9016.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				1352.42
	Total				10368.54 Z
	Add Cess @ 1% on "Z"				103.69
	Cost of 6.00 sqm.				10472.22
	Cost of 1 sqm.				1745.37
	Say				1745.35

9.160.2 25 mm thick.

Details of cost for 6.00 sqm

Detail of cost for skirting 200 mm wide & 30 m long

Area 0.20 mx30 m = 6.0 sqm MATERIAL:

Area 0.20 m x30 m = 6.0 sqm

Add wastage @ 10 % = 0.60 sqm

Total = 6.60 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	6.60	860.00	5676.00
9999	Sundries (Carriage of MDF board)	L.S.	8.11	2.00	16.22
2489	PVC edge bending tape 2.00 mm thick	metre	30.00	20.00	600.00
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	25.00	2550.00
9999	Sundries (Labour for drilling hole)	L.S.	130.00	2.00	260.00
	LABOUR				
0015	Carpenter 2nd class	day	0.77	374.50	288.37
0017	Beldar	day	0.86	320.83	275.91
9999	Sundries (screws and sand paper)	L.S.	53.82	2.00	107.64
	TOTAL				9774.14 W
	Add 1 % Water charges on "W"				97.74
	TOTAL				9871.88 X
	Add GST (multiplying factor 0.1405) on "X"				1387.00
	TOTAL				11258.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				1688.83
	Total				12947.71 Z
	Add Cess @ 1% on "Z"				129.48
	Cost of 6.00 sqm.				13077.19
	Cost of 1 sqm.				2179.53
	Say				2179.55
9.161	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/m²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m³ . The frame will have a provision of G.I. Anchor fastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded).				
	Details of cost for 5.81 metre (1.71 + 2.05) (Door size-1710 x 2050 mm)				
	MATERIAL:				
8017	Fire Rated door Frame made with 1.6 mm thick G.I. Sheet (120 minutes)	metre	5.81	1000.00	5810.00
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	For fixing in position all complete	L.S.	130	2.00	260.00
9999	Sundries and carriage (Fasteners, sims, Hole Plugs etc)	L.S.	250	2.00	500.00
	Total				6570.00 W
	Add 1 % Water charges on "W"				65.70
	TOTAL				6635.70 X
	Add GST (multiplying factor 0.1405) on "X"				932.32
	TOTAL				7568.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				1135.20
	Total				8703.22 Z
	Add Cess @ 1% on "Z"				87.03
	Cost of 5.81 metre				8790.25
	Cost of 1 metre				1512.95
	Say				1512.95

9.162 Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m²) duly filled mineral wool insulation having density min 96 kg/m³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-charge (panelling to be paid for seperately).

Details of cost for 3.50 sqm (Door size-

1710 x 2050 mm) material

MATERIAL:

8018	Fire Rated door shutter made with 1.6 mm thick Sheet (120 minutes), including hinges but without glass panels but including wastages	sqm	3.50	5000.00	17500.00
8101	Stainless steel ball bearing hinges of size 100x89x3mm LABOUR:	each	8.00	450.00	3600.00
9999	For fixing in position all complete	L.S.	130.00	2.00	260.00
9999	Sundries and carriage	L.S.	280.00	2.00	560.00
	Total				21920.00 W
	Add 1 % Water charges on "W"				219.20
	TOTAL				22139.20 X
	Add GST (multiplying factor 0.1405) on "X"				3110.56
	TOTAL				25249.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				3787.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				29037.22 Z
	Add Cess @ 1% on "Z"				290.37
	Cost of 3.5 sqm				29327.59
	Cost of 1 sqm				8379.31
	Say				8379.30
9.163	Providing and fixing non load bearing fixed frame for fire resistant glazed Partition for 120 minutes Fire Rating, made out to a profile of dimension 60mm x 70 mm of 1.6 mm thick galvanised steel sheet as per test evidence suitable for fixing fire rated glass for 120 minutes of both integrity & radiation control (EW120) & minimum 20 minutes of insulation (EI20).The profile has to be fixed to the supporting construction by means of anchor fasteners of size M10 x 80, every 150 mm from the edges and every 500 mm (approx) c/c. Linear measurement of frame shall be measured for payment. The frame shall be filled with mineral wool insulation of density min 96kg/ m³ and finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per NBC 2016, IS 16231 (Part 3):2016 and directions of Engineer - in- charge. Details of cost for 5.81 metre (2.05+1.71+2.05) (Door size-1710 x 2050 mm) MATERIAL:				
8017	Fire Rated door Frame made with 1.6 mm thick G.I. Sheet (120 minutes)	metre	5.81	1000.00	5810.00
	LABOUR:				
9999	For fixing in position all complete	L.S.	130	2.00	260.00
9999	Sundries and carriage (Fasteners, sims, Hole Plugs etc)	L.S.	250	2.00	500.00
	Total				6570.00 W
	Add 1 % Water charges on "W"				65.70
	TOTAL				6635.70 X
	Add GST (multiplying factor 0.1405) on "X"				932.32
	TOTAL				7568.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				1135.20
	Total				8703.22 Z
	Add Cess @ 1% on "Z"				87.03
	Cost of 5.81 mtere				8790.25
	Cost of 1 metre				1512.95
	Say				1512.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.164	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-incharge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.				
	Details of cost for glazing portion 2.46 sqm (Door size 1710 mm x 2050 mm) Glazing area- 2x0.679x1.808= 2.46 sqm MATERIAL:				
2640	Glass pans of required thicknes having 120 minutes of fire resistance both integrity and radition control (EW 120) & minimum 20 minuts of insulationClear(EI 20)	sqm	2.46	25000.00	61500.00
2641	G.I. U beading of 1.6 mm thick G.I. Sheet with M4x38mm SS screws	metre	9.91	245.00	2427.95
2642	Ceramic tape 5x20 mm size	metre	19.82	410.00	8126.20
	LABOUR:				
9999	For fixing in position all complete	L.S.	180.00	2.00	360.00
9999	Sundries and carriage & Calcium Silicate Blocks	L.S.	10.00	2.00	20.00
	Total				72434.15 W
	Add 1 % Water charges on "W"				724.34
	TOTAL				73158.49 X
	Add GST (multiplying factor 0.1405) on "X"				10278.77
	TOTAL				83437.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				12515.59
	Total				95952.85 Z
	Add Cess @ 1% on "Z"				959.53
	Cost of 2.46 sqm				96912.38
	Cost of 1 sqm				39395.28
	Say				39395.30
9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9.165.1	125mm				
	Details of cost for ten nos (125 mm)				
	MATERIAL				
554	Stainless steel fancy handles (125mm) for kitchen cabinet	10 Nos	1.00	640.00	640.00
8214	SS screws 20mm	100 Nos.	0.40	125.00	50.00
9999	Carriage of material	LS	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				722.20 W
	Add 1 % Water charges on "W"				7.22
	TOTAL				729.42 X
	Add GST (multiplying factor 0.1405) on "X"				102.48
	TOTAL				831.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				124.79
	Total				956.69 Z
	Add Cess @ 1% on "Z"				9.57
	Cost for 10nos				966.26
	Cost for 1 no				96.63
	Say				96.65
9.165.2	100mm				
	Details of cost for ten nos (100 mm)				
	MATERIAL				
553	Stainless steel fancy handles (100mm) for kitchen cabinet	10 Nos	1.00	455.00	455.00
8214	SS screws 20mm	100 Nos.	0.40	125.00	50.00
9999	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				537.20 W
	Add 1 % Water charges on "W"				5.37
	TOTAL				542.57 X
	Add GST (multiplying factor 0.1405) on "X"				76.23
	TOTAL				618.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				92.82
	Total				711.62 Z
	Add Cess @ 1% on "Z"				7.12
	Cost for 10nos				718.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for1 no				71.87
	Say				71.85
9.165.3	75 mm				
	Details of cost for ten nos (75 mm)				
	MATERIAL				
552	Stainless steel fancy handles (75mm) for kitchen cabinet	10 Nos	1.00	255.00	255.00
8214	SS screws 20mm	100 Nos.	0.40	125.00	50.00
9999	Carriage of material	LS	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				337.20 W
	Add 1 % Water charges on "W"				3.37
	TOTAL				340.57 X
	Add GST (multiplying factor 0.1405) on "X"				47.85
	TOTAL				388.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.26
	Total				446.69 Z
	Add Cess @ 1% on "Z"				4.47
	Cost for 10nos				451.15
	Cost for1 no				45.12
	Say				45.10

SUB HEAD : 10.0

STEEL WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				
	Details of cost for one qunital				
	MATERIAL				
	Steel = 1.00q				
	Add wastage @ 5% = 0.05q				
	Total = 1.05q				
1007	Structurals such as tees,angles channels and R.S. joists	qunital	1.05	4600.00	4830.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	1.00	320.83	320.83
	Priming Coat				
13.50.3	Rate as per Item Number 13.50.3 of SH:Finishing	sqm	3.00	33.30	99.90 A
9999	Sundries	L.S.	20.67	2.00	41.34
	TOTAL				5820.85 W
	Add 1 % Water charges on "W-A"	5720.95			57.21
	TOTAL				5878.06 X
	Add GST (multiplying factor 0.1405) on "X-A"	5778.16			811.83
	TOTAL				6689.89 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6589.99			988.50
	Total				7678.39 Z
	Add Cess @ 1% on "Z-A"	7578.49			75.78
	Cost of 1qunital				7754.18
	Cost of 1 Kg.				77.54
	Say				77.55
10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				
	Details of cost for a truss 7.6m clear span				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(weight = 3.95 quintal)				
	MATERIAL				
	(i) Principal rafter (T-iron)				
	100x100x10mm @15kg/m = 142.50Kg+				
	Struts (angles)40x40x6mm				
	2x1.35=2.70m @ 3.5kg/m = 9.45kg				
	Total =151.95kg+				
	Add wastage @ 5% = 7.60kg				
	Total = 159.55kg. = 1.60q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	1.60	4600.00	7360.00
	(ii) Ties (flats) 50x12mm				
	2x2.7 = 5.4m @4.7kg/m = 25.38kg+				
	Ties central (flats) 50x10mm				
	1x2.28 = 2.8m @3.90kg/m = 10.92kg.+				
	Braces (flats)40x10mm				
	2x1.84 = 3.68m @3.9kg/m = 14.35kg.				
	Total = 50.65kg+				
	Add wastage @ 5% = 2.53kg. Total = 53.18kg. = 0.53q				
1009	Flats exceeding 10 mm in thickness	quintal	0.53	4600.00	2438.00
	(iii) Gusset plates 10mm thick 1x0.74x0.35m = 0.259sqm.+ shoe 4x0.46x0.46 = 0.845sqm.				
	Total = 1.104 sqm.				
	1.104sqm.@ 78.4kg/m = 86.55kg.				
	12mm plates at the point of principal rafter and strut-				
	2x0.3x0.2 = 0.12sqm.+				
	Tie beam, brace and strut2x0.5x0.3 = 0.30sqm.+				
	Sole plates-				
	2x0.46x0.46 = 0.42sqm.+				
	Anchor plate-				
	2x0.46x0.1 = 0.09sqm.				
	Total = 0.93 sqm.				
	Say 1.00 sqm.				
	1.0sqm. @ 94.4kg/m = 94.40kg. Total = 180.95kg.				
	Add wastage @ 5% = 9.05kg. Total = 190.00kg or 1.90q				
1010	Mild steel plates	quintal	1.90	4800.00	9120.00
	(iv) 16mm dia. 50mm long rivets = 56 nos.+ Add wastage @ 5 % = 2.8 nos.				
	Total = 58.8 nos.				
1020	Mild steel rivets	quintal	0.0684	5000.00	342.00
	(v) 20mm dia. holding down bolts				
	4 Nos.x460mm = 1840mm +				
	Add wastage @ 5% = 92mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total =1932 mm				
1221	20 mm dia holding down bolts	quintal	0.0529	6100.00	322.69
2205	Carriage of Steel (0.160+0.053+0.091 +0.099+ 0.007+0.005) =0.415 tonne LABOUR	tonne	0.415	94.34	39.15
0019	Fitter (grade 1)	day	2.70	476.00	1285.20
0013	Blacksmith 2nd class	day	3.60	374.50	1348.20
0037	Skilled Beldar (for floor rubbing etc.)	day	5.40	320.83	1732.48
0017	Beldar	day	3.60	320.83	1154.99
0010	Bandhani	day	0.44	320.83	141.17
	Applying priming coat T.Iron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 = 0.67sqm.+ Braces 2x1.84x0.12 = 0.44 sqm.+ Ties 2.8x0.12 = 0.34 sqm. Total = 5.68 sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	5.68	33.30	189.15 A
9999	Sundries	L.S.	80.73	2	161.46
	TOTAL				25634.49 W
	Add 1 % Water charges on "W-A"	25445.34			254.45
	TOTAL				25888.94 X
	Add GST (multiplying factor 0.1405) on "X-A"	25699.79			3610.82
	TOTAL				29499.76 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	29310.61			4396.59
	Total				33896.35 Z
	Add Cess @ 1% on "Z-A"	33707.20			337.07
	Quantity of net steel (151.95+50.65+ 180.95+6.5+5.04) = 395.09 kg = 3.95 quintal Cost for 3.95 quintal Cost of per kg.				86.67
	Say				86.65
10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Details of cost for a gate 2.4mx1.5m = 3.6sqm. MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	M.S. channels 18 Nos. on both sides 20x10x2mm @ 0.56kg/m 2x18x2.4 = 86.40m+ Add wastage @ 10% = 8.64m Total = 95.04m 95.04m@0.56kg/m =53.22kg=0.53q				
1007	Structurals such as tees,angles channels and R.S. joists M.S. Tee-40x40x6mm for bottom-1.570m+ for top = 1.725m Total =3.295m Say 3.3m 3.3m @ 3.5kg/m = 11.55kg+ Add wastage @ 10% = 1.155 Kg. Total = 12.705Kg. Say 0.13q	quintal	0.53	4600.00	2438.00
1007	Structurals such as tees,angles channels and R.S. joists 20mmx5mm flat iron diagonals 4 Nos. 4x32x0.5334 = 68.275m 68.275m @ 0.8kg/m = 54.62kg+ Add wastage @10% = 5.46kg Total = 60.08kg = 0.60q	quintal	0.13	4600.00	598.00
1008	Flats upto 10 mm in thickness	quintal	0.60	4500.00	2700.00
2205	Carriage of Steel (0.053+0.013+0.060=0.126 tonne)	tonne	0.126	94.34	11.89
9999	Cost of rivets fixing hooks and washers	L.S.	269.10	2.00	538.20
9999	Cost of locking arrangements and handles	L.S.	67.34	2.00	134.68
4013	Pully 40 mm dia	each	10.00	30.00	300.00
	Priming coat- Channel - 36x0.076x2.4 = 6.57sqm.+ Tee-0.16x3.3 = 0.53sqm.+ Flats-0.05x68 = 3.40sqm. Total = 10.50sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing LABOUR	sqm	10.50	33.30	349.66 A
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0012	Blacksmith 1st class	day	6.00	476.00	2856.00
0013	Blacksmith 2nd class	day	6.00	374.50	2247.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	8.00	320.83	2566.64
9999	Sundries	L.S.	161.46	2.00	322.92
	TOTAL				16916.24 W
	Add 1 % Water charges on "W-A"	16566.58			165.67
	TOTAL				17081.90 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	16732.24			2350.88
	TOTAL				19432.78 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	19083.12			2862.47
	Total				22295.25 Z
	Add Cess @ 1% on "Z-A"	21945.59			219.46
	Cost of 3.6sqm.				22514.71
	Cost per sqm.				6254.09
	Say				6254.10

10.4 Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and T- iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer

Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.

MATERIAL

(i) M.S. sheet 1mm thick

5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add
wastage @ 10% = 4.522kg. Total = 49.738kg =
0.497 q

1013	Mild steel sheets for tanks	quintal	0.497	4600.00	2286.20

(ii) Gusset plates 3.00mm thick

Area of one gusset plates

0.3x0.04 = 0.0120+

1/2x0.26(0.04+0.3) = 0.0442

Total = 0.0562sqm.+

8x0.0562 = 0.4496sqm.+

2x22/7x1/4x0.3x0.3=0.1414sqm.

Total = 0.5910sqm.

0.5910sqm.@23.55kg/sqm.=13.92kg.+

Add wastage @ 10% = 1.39kg

Total = 15.31kg. or 0.153q

1010	Mild steel plates	quintal	0.153	4800.00	734.40

(iii) Angle iron

40x40x6mm @ 3.5kg/m

Sides-4x2.4=9.6m+

Bottom & top 4x1.2 = 4.8m+

Diagonals-2x2.5=5.0m+

2x2.45 = 4.9m+

Top and bottom guides

2x4.8 = 9.6m

Top guide supports

7x0.8 = 2.1m

Total = 36.0m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	36m @3.5kg. per m. = 126kg.+ Add wastage @ 10% = 12.6kg. Total = 138.6kg. or 1.39q Structurals such as tees,angles channels and R.S. joists Channel 25x25x6mm @ 3.05kg/m Bottom-2.4m : 2.4x3.05 Channel 40x40x6mm @ 5.56kg/m 0.5x5.56 = 2.78kg. Total = 10.1kg.+ Add wastage @ 10% = 1.101kg. Total = 11.11kg. or 0.11q	quintal	1.39	4600.00	6394.00
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.11	4600.00	506.00
2205	Carriage of Steel (0.0497+0.015+0.139+0.11=0.2157 tonne)	tonne	0.216	94.34	20.38
9999	(iv) Pulley guide blocks including drilling holes	L.S.	269.10	2.00	538.20
969	Pulley 25 mm dia	each	8.00	48.00	384.00
9999	(vi) Handles and locking arrangements	L.S.	167.75	2.00	335.50
9999	(vii) Bolts and rivets	L.S.	269.10	2.00	538.20
9999	(viii)Cement concrete	L.S.	13.52	2.00	27.04
13.50.3	Priming coat- M.S. Sheet 2x5.76 = 11.52+ Angle iron 0.16x36 = 5.76+ Channel-0.15x2.4=0.36+ 0.24x0.5=0.12 Total = 17.76 Say 18.0sqm. Rate as per item no 13.50.3 of	sqm	18.00	33.30	599.40 A
	SH : Finishing LABOUR				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0012	Blacksmith 1st class	day	3.00	476.00	1428.00
0013	Blacksmith 2nd class	day	4.00	374.50	1498.00
0017	Beldar	day	4.00	320.83	1283.32
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
9999	Sundries	L.S.	161.46	2.00	322.92
	TOTAL				17898.59 W
	Add 1 % Water charges on "W-A"	17299.19			172.99
	TOTAL				18071.58 X
	Add GST (multiplying factor 0.1405) on "X-A"	17472.18			2454.84
	TOTAL				20526.42 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"	19927.02			2989.05
	Total				23515.47 Z
	Add Cess @ 1% on "Z-A"	22916.07			229.16
	Cost of 5.76 sqm.				23744.63
	Cost per sqm.				4122.33
	Say				4122.35

10.5 Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.

10.5.1 Using M.S. angels 40x40x6 mm for diagonal braces

Details of cost for a double leaf door of size 2.4mx2.4m=5.76sqm.

MATERIAL

(i) M.S. sheet 1mm thick

5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add
wastage @ 10% = 4.522kg. Total = 49.738kg =
0.497 q

1013	Mild steel sheets for tanks	quintal	0.497	4600.00	2286.20

(ii) Gusset plates 3.00mm thick

Area of one gusset plates

$0.3 \times 0.04 = 0.0120 +$

$1/2 \times 0.26(0.04 + 0.3) = 0.0442$

Total = 0.0562sqm.+

$8 \times 0.0562 = 0.4496 \text{sqm.} +$

$2 \times 22/7 \times 1/4 \times 0.3 \times 0.3 = 0.1414 \text{sqm.}$

Total = 0.5910sqm.

$0.5910 \text{sqm.} @ 23.55 \text{kg/sqm.} = 13.92 \text{kg.} +$

Add wastage @ 10% = 1.39kg

Total = 15.31kg. or 0.153q

1013	Mild steel sheets for tanks	quintal	0.153	4600.00	703.80

(iii) Angle iron: 40x40x6mm @ 3.5kg/m

Sides- $4 \times 2.40 = 9.6 \text{m} +$

Top & bottom- $4 \times 1.20 = 4.8 \text{m} +$

Diagonals- $2 \times 2.5 = 5.0 \text{m} +$

$2 \times 2.45 = 4.9 \text{m} +$

Total = 24.30m+

Add wastage @ 10% = 2.43m

Total = 26.73m

$26.73 \text{m} @ 3.5 \text{kg. per m.} = 93.56 \text{kg} = 0.936 \text{q}$

1007	Structurals such as tees, angles channels and R.S. joists	quintal	0.936	4600.00	4305.60

2205	Carriage of Steel	tonne	0.1586	94.34	14.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(0.0497+0.0153+0.0936 tonne) = 0.1586 t				
1036	Iron pintels including welded pin	each	4.00	37.00	148.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.00	120.00	480.00
1019	Mild steel hooks	each	2.00	32.00	64.00
9999	Locking arrangements and handles	L.S.	167.70	2.00	335.40
9999	Rivets	L.S.	269.10	2.00	538.20
	Priming coat M.S. sheet = 11.52				
	Angle iron-0.16x24.3 = 3.89				
	Total = 15.41				
13.50.3	Rate as per item no 13.50.3 of	sqm	15.41	33.30	513.17 A
	SH : Finishing				
	LABOUR				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0012	Blacksmith 1st class	day	3.00	476.00	1428.00
0013	Blacksmith 2nd class	day	4.00	374.50	1498.00
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	5.00	320.83	1604.15
9999	Sundries	L.S.	161.46	2.00	322.92
	TOTAL				15245.43 W
	Add 1 % Water charges on "W-A"	14732.26			147.32
	TOTAL				15392.76 X
	Add GST (multiplying factor 0.1405) on "X-A"	14879.58			2090.58
	TOTAL				17483.34 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	16970.17			2545.52
	Total				20028.86 Z
	Add Cess @ 1% on "Z-A"	19515.69			195.16
	Cost of 5.76 sqm.				20224.02
	Cost per sqm.				3511.11
	Say				3511.10

10.5.2 Using flats 30x6mm for diagonal braces and central cross piece

Details of cost for a double leaf door of size 2.4x2.4m = 5.76sqm.

MATERIAL

(i) M.S. sheet 1mm thick

5.76sqm. @ 7.85kg/sqm. = 45.216kg. + Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q

1013	Mild steel sheets for tanks	quintal	0.497	4600.00	2286.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) Gussets plates-3.00mm thick vide (ii) in item $10.6 = 0.5910\text{sqm.} + \text{at mid height} = 4 \times 0.0528 = 0.2112\text{sqm.}$ Total = 0.8022sqm.+ Add wastage @ 10% = 0.0802sqm. Total = 0.8824sqm. @ 23.55 kg/sqm = 20.78 kg Grand Total = 0.2078 qtl				
1010	Mild steel plates (iii) Angle iron: 40x40x6mm @ 3.5kg/m Sides- $4 \times 2.40 = 9.6\text{m} +$ Top & bottom- $4 \times 1.20 = 4.8\text{m} +$ Total = 14.40m+ Add wastage @ 10% = 1.44m Total = 15.84m $15.84\text{m} @ 3.5\text{kg. per m.} = 55.44\text{kg} = 0.554\text{qtl}$	quintal	0.2078	4800.00	997.44
1007	Structurals such as tees, angles channels and R.S. joists (iv) Flats 30x6mm @ 1.4kg/m $4 \times 2.45 = 9.80\text{m} +$ $2 \times 1.20 = 2.40\text{m}$ Total = 12.20m+ Add wastage @ 10% = 1.22m Total = 13.42m $13.42\text{m} @ 1.4\text{kg. per m.} = 18.788\text{kg.}$ = 0.188q	quintal	0.554	4600.00	2548.40
1008	Flats upto 10 mm in thickness Carriage of (i) (ii) and (iv) $0.0497 + 0.0208 + 0.0554 + 0.0188 = 0.1447 \text{ tonne}$	quintal	0.188	4500.00	846.00
2205	Carriage of Steel	tonne	0.1447	94.34	13.65
1036	Iron pintels including welded pin	each	4.00	37.00	148.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.00	120.00	480.00
1019	Mild steel hooks	each	2.00	32.00	64.00
9999	Locking arrangements and handles	L.S.	167.70	2.00	335.40
9999	Rivets	L.S.	269.10	2.00	538.20
	Applying priming coat M.S. sheet = 11.52 Angle iron- $0.16 \times 24.3 = 3.89$ $0.16 \times 14.40 = 2.30 +$ Flats $0.072 \times 12.2 = 0.88$ Total = 14.70sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing LABOUR	sqm	14.70	33.30	489.53 A
0019	Fitter (grade 1)	day	2.00	476.00	952.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Blacksmith 1st class	day	3.00	476.00	1428.00
0013	Blacksmith 2nd class	day	4.00	374.50	1498.00
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	5.00	320.83	1604.15
9999	Sundries	L.S.	161.46	2.00	322.92
	TOTAL				14602.92 W
	Add 1 % Water charges on "W-A"	14113.39			141.13
	TOTAL				14744.05 X
	Add GST (multiplying factor 0.1405) on "X-A"	14254.52			2002.76
	TOTAL				16746.81 Y
	Add 15 % Contractor's profit and overheads on "Y-	16257.29			2438.59
	Total				19185.41 Z
	Add Cess @ 1% on "Z-A"	18695.88			186.96
	Cost of 5.76 sqm.				19372.36
	Cost per sqm.				3363.26
	Say				3363.25

10.6 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.

10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover

Details of cost for a shutter of size 3mx2.5m = 7.5sqm.

MATERIAL

973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	7.50	1400.00	10500.00
974	Top cover for rolling shutters 1.25 mm thick	metre	2.50	800.00	2000.00
975	27.5 cm long wire spring grade no 2 for rolling shutters	each	1.00	300.00	300.00
9977	CARRIAGE LABOUR	L.S.	53.82	2.00	107.64
0019	Fitter (grade 1)	day	2.55	476.00	1213.80
0017	Beldar	day	2.55	320.83	818.12
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
9999	Sundries	L.S.	60.58	2.00	121.16
	TOTAL				15162.78 W
	Add 1 % Water charges on "W"				151.63

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				15314.40 X
	Add GST (multiplying factor 0.1405) on "X"				2151.67
	TOTAL				17466.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				2619.91
	Total				20085.99 Z
	Add Cess @ 1% on "Z"				200.86
	Cost of 7.5 sqm.				20286.85
	Cost per sqm.				2704.91
	Say				2704.90

10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover

Details of cost for a shutter of size 3mx2.5m = 7.5sqm.

MATERIAL

7045	Rolling shutters of 80x1.2 mm laths	sqm	7.50	1375.00	10312.50
7047	Top cover of Rolling shutters 1.20 mm thick	metre	2.50	560.00	1400.00
975	27.5 cm long wire spring grade no 2 for rolling shutters	each	1.00	300.00	300.00
9977	CARRIAGE LABOUR	L.S.	53.82	2.00	107.64
0019	Fitter (grade 1)	day	2.55	476.00	1213.80
0017	Beldar	day	2.55	320.83	818.12
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
9999	Sundries	L.S.	60.58	2.00	121.16
	TOTAL				14375.28 W
	Add 1 % Water charges on "W"				143.75
	TOTAL				14519.03 X
	Add GST (multiplying factor 0.1405) on "X"				2039.92
	TOTAL				16558.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				2483.84
	Total				19042.80 Z
	Add Cess @ 1% on "Z"				190.43
	Cost of 7.5 sqm.				19233.22
	Cost per sqm.				2564.43
	Say				2564.45

10.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover

Details of cost for a shutter of size 3mx2.5m = 7.5sqm.

MATERIAL

7044	Rolling shutters of 80x0.90 mm laths	sqm	7.50	1300.00	9750
7046	Top cover of Rolling shutters 0.90 mm thick	metre	2.50	450.00	1125.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
975	27.5 cm long wire spring grade no 2 for rolling shutters	each	1.00	300.00	300.00 0.00
9977	CARRIAGE LABOUR	L.S.	53.82	2.00	107.64
0019	Fitter (grade 1)	day	2.55	476.00	1213.80
0017	Beldar	day	2.55	320.83	818.12
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
9999	Sundries	L.S.	60.58	2.00	121.16
	TOTAL				13537.78 W
	Add 1 % Water charges on "W"				135.38
	TOTAL				13673.15 X
	Add GST (multiplying factor 0.1405) on "X"				1921.08
	TOTAL				15594.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				2339.13
	Total				17933.37 Z
	Add Cess @ 1% on "Z"				179.33
	Cost of 7.5 sqm.				18112.70
	Cost per sqm.				2415.03
	Say				2415.05

10.7 Providing and fixing ball bearing for rolling shutters.

Details of cost for 1 No.

976	Ball bearing for rolling shutters	each	1.00	260.00	260.00
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				313.82 W
	Add 1 % Water charges on "W"				3.14
	TOTAL				316.96 X
	Add GST (multiplying factor 0.1405) on "X"				44.53
	TOTAL				361.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.22
	Total				415.71 Z
	Add Cess @ 1% on "Z"				4.16
	Cost of 1 no.				419.87
	Say				419.85

10.8 Extra for providing mechanical device chain and crank operation for operating rolling shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area				
	Details of cost for one sqm.				
977	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sq.m and upto 16.80 sq.m area of door	sqm	1.00	800.00	800.00
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				827.04 W
	Add 1 % Water charges on "W"				8.27
	TOTAL				835.31 X
	Add GST (multiplying factor 0.1405) on "X"				117.36
	TOTAL				952.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.90
	Total				1095.57 Z
	Add Cess @ 1% on "Z"				10.96
	Cost of 1 no.				1106.53
	Say				1106.55
10.8.2	Exceeding 16.80 sqm in area				
	Details of cost for one sqm.				
978	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sq.m area of door	sqm	1.00	800.00	800.00
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				827.04 W
	Add 1 % Water charges on "W"				8.27
	TOTAL				835.31 X
	Add GST (multiplying factor 0.1405) on "X"				117.36
	TOTAL				952.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.90
	Total				1095.57 Z
	Add Cess @ 1% on "Z"				10.96
	Cost of 1 no.				1106.53
	Say				1106.55
10.9	Extra for providing grided rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a shutter of width 2.5m and grill height 0.6m				
	Grill Area = 1.50sqm.				
	MATERIAL				
7068	Extra for providing grided rolling shutters with 8 mm dia M.S. rod	sqm	1.50	500.00	750.00
	TOTAL				750.00 W
	Add 1 % Water charges on "W"				7.50
	TOTAL				757.50 X
	Add GST (multiplying factor 0.1405) on "X"				106.43
	TOTAL				863.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				129.59
	Total				993.52 Z
	Add Cess @ 1% on "Z"				9.94
	Cost of 1.5 sqm.				1003.45
	Cost per sqm.				668.97
	Say				668.95
10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.				
10.10.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
	Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg)				
	MATERIAL				
	Cement concrete blocks				
	15x10x10cm = 0.009 cum				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.009	6577.55	59.20 A
	LABOUR				
0012	Blacksmith 1st class	day	0.17	476.00	80.92
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
0017	Beldar	day	0.5	320.83	160.42
9977	Sundries for carriage of material	L.S.	67.28	2.00	134.56
	TOTAL				503.13 W
	Add 1 % Water charges on "W-A"	443.94			4.44
	TOTAL				507.57 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	448.37			63.00
	TOTAL				570.57 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	511.37			76.71
	Total				647.27 Z
	Add Cess @ 1% on "Z-A"	588.08			5.88
	Cost of 15 kg				653.16
	Cost per kg				43.54
	Say				43.55

10.10.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Details of cost for one door 2x0.76m =

1.52sqm.(weight 15 kg)

LABOUR

0023	Mason (brick layer) 1st class	day	0.17	476.00	80.92
0017	Beldar	day	0.17	320.83	54.54
9977	Sundries for Carriage of material	L.S.	67.28	2.00	134.56
	TOTAL				270.02 W
	Add 1 % Water charges on "W"				2.70
	TOTAL				272.72 X
	Add GST (multiplying factor 0.1405) on "X"				38.32
	TOTAL				311.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				46.66
	Total				357.69 Z
	Add Cess @ 1% on "Z"				3.58
	Cost of 15 kg				361.27
	Cost per kg				24.08
	Say				24.10

10.11 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).

10.11.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Details of cost for a double leaf door of size
2.075x1.175m = 2.44 sqm. (weight 30 kg).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1011	Steel glazed door,window/ ventilator, all members like as F7D, F4B, K11 and K12B etc.	kg	30.00	54.00	1620.00
9977	Carriage of Steel Door Labour for fabrication	L.S.	40.37	2.00	80.74
0013	Blacksmith 2nd class	day	0.17	374.50	63.67
0019	Fitter (grade 1)	day	0.26	476.00	123.76
0017	Beldar	day	0.34	320.83	109.08
9999	Sundries	L.S.	15.37	2.00	30.74
	Fixing with CC 1:3:6 blocks, wooden plugs and screws or rawl plugs and screws or with fixing clips and bolts and nuts as required including metal sash putty for glass fixing				
10.10.1	Rate as per Item No.10.10.1	kg	30.00	43.55	1306.61 A
	Apply steel primer (2.44x1.00 for both sides)=2.44 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.44	33.30	81.25 A
	TOTAL				3415.85 W
	Add 1 % Water charges on "W-A"	2027.99			20.28
	TOTAL				3436.13 X
	Add GST (multiplying factor 0.1405) on "X-A"	2048.27			287.78
	TOTAL				3723.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2336.05			350.41
	Total				4074.32 Z
	Add Cess @ 1% on "Z-A"	2686.46			26.86
	Cost for 30 kg.				4101.19
	Cost of 1 kg.				136.71
	Say				136.70
10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)				
	Details of cost for a double leaf door of size 2.075x1.175m = 2.44 sqm. (weight 30 kg).				
	MATERIAL				
1011	Steel glazed door,window/ ventilator, all members like as F7D, F4B, K11 and K12B etc.	kg	30.00	54.00	1620.00
9977	Carriage of Steel Door Labour for fabrication	L.S.	40.37	2.00	80.74
0013	Blacksmith 2nd class	day	0.17	374.50	63.67
0019	Fitter (grade 1)	day	0.26	476.00	123.76
0017	Beldar	day	0.34	320.83	109.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	15.37	2.00	30.74
	Labour for fixing				
0017	Beldar	day	0.027	320.83	8.66
0018	Collie	day	0.0195	320.83	6.26
0030	Mistry	day	0.0084	476.00	4.00
0028	Mate	day	0.0012	320.83	0.38
9999	Hire charges of drill machine, scaffolding and sundries	L.S.	12.22	2.00	24.44
	Apply steel primer (2.44x1.00 for both sides)=2.44 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.44	33.30	81.25 A
	TOTAL				2152.98 W
	Add 1 % Water charges on "W-A"	2071.73			20.72
	TOTAL				2173.70 X
	Add GST (multiplying factor 0.1405) on "X-A"	2092.45			293.99
	TOTAL				2467.69 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2386.44			357.97
	Total				2825.66 Z
	Add Cess @ 1% on "Z-A"	2744.40			27.44
	Cost for 30 kg.				2853.10
	Cost of 1 kg.				95.10
	Cost of 1 kg.				95.10
	Say				95.10
10.12	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.				
	Detail of cost for 1 metre beading for doors, windows, Ventilators and composit units				
1143	Steel beading size 10 x 10 x 1.6 mm (box type)	metre	1.00	27.00	27.00
9999	Applying priming coat	L.S.	0.46	2.00	0.92
9999	Fixing charges	L.S.	3.01	2.00	6.02
	TOTAL				33.94 W
	Add 1 % Water charges on "W"				0.34
	TOTAL				34.28 X
	Add GST (multiplying factor 0.1405) on "X"				4.82
	TOTAL				39.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.86
	Total				44.96 Z
	Add Cess @ 1% on "Z"				0.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				45.41
	Say				45.40
10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
	Details of cost for 17.5Kg.				
	MATERIAL				
	Tee iron 40x40x6mm = 2m+2m+ 1m = 5 metres 5 metres @3.5Kg/m = 17.5kg.+ Add wastage @ 5% = 0.87Kg. Total = 18.37 kg. Say 0.18 quintal				
1007	Structurals such as tees,angles channels and R.S. joists M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60Kg.+ Add wastage @ 5% = 0.03Kg. Total = 0.63 Kg. Say = 0.006 quintal	quintal	0.18	4600.00	828.00
1002	Mild steel round bar 12 mm dia and below M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21Kg+ Add wastage @ 5% = 0.01 Kg. Total = 0.22 kg = 0.002q.	quintal	0.006	4500.00	27.00
1008	Flats upto 10 mm in thickness Cement concrete block 1:3:6- 6x15x 10x10cm= 0.009 cum	quintal	0.002	4500.00	9.00
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.009	6577.55	59.20 A
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	For screws and nuts and bolts	L.S.	35.88	2.00	71.76
9999	For applying steel primer	L.S.	17.94	2.00	35.88
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				1280.45 W
	Add 1 % Water charges on "W-A"	1221.26			12.21
	TOTAL				1292.67 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	1233.47			173.30
	TOTAL				1465.97 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1406.77			211.02
	Total				1676.98 Z
	Add Cess @ 1% on "Z-A"	1617.79			16.18
	Cost for 17.5Kg.				1693.16
	Cost for 1 Kg.				96.75
	Say				96.75
10.13.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)				
	Details of cost for 17.5Kg.				
	MATERIAL				
	Tee iron 40x40x6mm = 2m+2m+1m = 5 metres				
	5 metres @3.5Kg/m = 17.5kg.+ Add wastage @ 5% = 0.87Kg.				
	Total = 18.37 kg. Say 0.18 quintal				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.18	4600.00	828.00
	M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60Kg.+ Add wastage @ 5% = 0.03Kg.				
	Total = 0.63 Kg. Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	For screws and nuts and bolts	L.S.	35.88	2.00	71.76
9999	For applying steel primer	L.S.	17.94	2.00	35.88
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				1212.26 W
	Add 1 % Water charges on "W"				12.12
	TOTAL				1224.38 X
	Add GST (multiplying factor 0.1405) on "X"				172.03
	TOTAL				1396.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				209.46
	Total				1605.86 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				16.06
	Cost for 17.5Kg.				1621.92
	Cost for 1 Kg.				92.68
	Say				92.70
10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
10.14.1	Profile B				
10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb				
	Details of cost for 5 metre				
	MATERIAL				
4006	Pressed steel door frames (mild steel sheet 1.60mm) Profile "B" frame =2+2+1m=5m	metre	5.00	190.00	950.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q	L.S.	35.88	2.00	71.76
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1461.51 W
	Add 1 % Water charges on "W-A"		1371.93		13.72
	TOTAL				1475.23 X
	Add GST (multiplying factor 0.1405) on "X-A"		1385.65		194.68
	TOTAL				1669.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1580.33		237.05
	Total				1906.96 Z
	Add Cess @ 1% on "Z-A"		1817.38		18.17
	Cost for 5 metres				1925.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 metre				385.03
	Say				385.05
10.14.1.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)				
	Details of cost for 5 metre				
	MATERIAL				
4006	Pressed steel door frames (mild steel sheet 1.60mm) Profile "B" frame =2+2+1m=5m	metre	5.00	190.00	950.00
9999	Deduct sundries for not providing adjustable lugs	L.S.	-20.00	2.00	-40.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts	L.S.	35.88	2.00	71.76
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.2	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1421.51 W
	Add 1 % Water charges on "W-A"	1331.93			13.32
	TOTAL				1434.83 X
	Add GST (multiplying factor 0.1405) on "X-A"	1345.25			189.01
	TOTAL				1623.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1534.25			230.14
	Total				1853.97 Z
	Add Cess @ 1% on "Z-A"	1764.39			17.64
	Cost for 5 metres				1871.61
	Cost for 1metre				374.32
	Say				374.30

10.14.2 Profile C

10.14.2.1 Fixing with adjustable lugs with split end tail to each jamb

Details of cost for 5 metre

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4007	Pressed steel door frames (mild steel sheet 1.60mm) Profile "C" 2+2+1m=5m	metre	5.00	210.00	1050.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts	L.S.	35.88	2.00	71.76
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q				0.00
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1561.51
	Add 1 % Water charges on "W-A"	1471.93			14.72
	TOTAL				1576.23 X
	Add GST (multiplying factor 0.1405) on "X-A"	1486.65			208.87
	TOTAL				1785.10 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1695.52			254.33
	Total				2039.43 Z
	Add Cess @ 1% on "Z-A"	1949.85			19.50
	Cost for 5 metres				2058.93
	Cost for 1metre				411.79
	Say				411.80

10.14.2.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Details of cost for 5 metre

MATERIAL

4007	Pressed steel door frames (mild steel sheet 1.60mm) Profile "C" 2+2+1m=5m	metre	5.00	210.00	1050.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for not providing adjustable lugs(-)	L.S.	-20.00	2.00	-40.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts	L.S.	35.88	2.00	71.76
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per uds =2.75kg. Say 0.03q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1521.51 W
	Add 1 % Water charges on "W-A"	1431.93			14.32
	TOTAL				1535.83 X
	Add GST (multiplying factor 0.1405) on "X-A"	1446.25			203.20
	TOTAL				1739.02 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1649.44			247.42
	Total				1986.44 Z
	Add Cess @ 1% on "Z-A"	1896.86			18.97
	Cost for 5 metres				2005.41
	Cost for 1metre				401.08
	Say				401.10

10.14.3 Profile E

10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb

Details of cost for 5 metre

MATERIAL

4008	Pressed steel door frames (mild steel sheet 1.60mm) Profile "E"	metre	5.00	240.00	1200.00
	2+2+1m=5m				
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts	L.S.	35.88	2.00	71.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kq per uds =2.75kq. Say 0.03q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1711.51 W
	Add 1 % Water charges on "W-A"	1621.93			16.22
	TOTAL				1727.73 X
	Add GST (multiplying factor 0.1405) on "X-A"	1638.15			230.16
	TOTAL				1957.88 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1868.30			280.25
	Total				2238.13 Z
	Add Cess @ 1% on "Z-A"	2148.55			21.49
	Cost for 5 metres				2259.62
	Cost for 1metre				451.92
	Say				451.90

10.14.3.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Details of cost for 5 metre

MATERIAL

4008	Pressed steel door frames (mild steel sheet 1.60mm) Profile "E"	metre	5.00	240.00	1200.00
	2+2+1m=5m				
9999	Sundries for not providing adjustable lugs (-)	L.S.	-20.00	2.00	-40.00
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	Screws, nuts and bolts	L.S.	35.88	2.00	71.76
	50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kq per uds =2.75kq. Say 0.03q				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	Structurals such as tees, angles channels and R.S. joists	quintal	0.03	4600.00	138.00
9999	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	Steel primer				
	500x2(2x1.2+2x6.0+1x12.50cm)=2.69sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.69	33.30	89.58 A
	TOTAL				1671.51 W
	Add 1 % Water charges on "W-A"	1581.93			15.82
	TOTAL				1687.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	1597.75			224.48
	TOTAL				1911.81 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1822.23			273.33
	Total				2185.14 Z
	Add Cess @ 1% on "Z-A"	2095.56			20.96
	Cost for 5 metres				2206.10
	Cost for 1metre				441.22
	Say				441.20
10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
10.15.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
	Details of cost for 7.13Kg.				
	MATERIAL				
	L- section - 32x22x28mm 1.60mm thick				
	2.00+2.00+1.00 = 5.00 m				
	Width of MS sheet = 32+24.80+22+				
	24.80+10mm = 113.60mm = 0.1136 m				
	Area of MS sheet = 0.1136x5.00x				
	0.0016 = 0.0009088 sqm				
	Weight of Sheet = 0.0009088x7850 =				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	7.134 kg Add wastage @ 5% = 0.357Kg. Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or inductionbutt welded M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60Kg. Add wastage @ 5% = 0.03Kg. Total = 0.63 Kg. Say = 0.006 quintal	kilogram	7.49	47.00	352.03
1002	Mild steel round bar 12 mm dia and below M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21Kg Add wastage @ 5% = 0.01 Kg. Total = 0.22 ka = 0.002a	quintal	0.006	4500.00	27.00
1008	Flats upto 10 mm in thickness Cement concrete block 1:3:6- 6x15x 10x10cm= 0.009 cum	quintal	0.002	4500.00	9.00
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.009	6577.55	59.20 A
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	For screws and nuts and bolts	L.S.	35.88	2.00	71.76
9999	For applying steel primer	L.S.	17.94	2.00	35.88
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				0.00
0013	Blacksmith 2nd class	day	0.04	374.50	14.98
0019	Fitter (grade 1)	day	0.06	476.00	28.56
0017	Beldar	day	0.08	320.83	25.67
9999	Sundries	L.S.	3.64	2.00	7.28
	TOTAL				690.01 W
	Add 1 % Water charges on "W-A"	630.82			6.31
	TOTAL				696.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	637.12			89.52
	TOTAL				785.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	726.64			109.00
	Total				894.83 Z
	Add Cess @ 1% on "Z-A"	835.64			8.36
	Cost for 7.13Kg.				903.19
	Cost for 1 Kg.				126.67
	Say				126.65
10.15.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately) Details of cost for 7.13Kg.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	L- section - 32x22x28mm 1.60mm thick				
	2.00+2.00+1.00 = 5.00 m				
	Width of MS sheet = 32+24.80+22+24.80+10mm = 113.60mm = 0.1136 m				
	Area of MS sheet = 0.1136x5.00x0.0016 = 0.0009088 sqm				
	Weight of Sheet = 0.0009088x7850 = 7.134 kg				
	Add wastage @ 5% = 0.357Kg.				
	Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or inductionbutt welded	kilogram	7.49	47.00	352.03
	M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60Kg.				
	Add wastage @ 5% = 0.03Kg.				
	Total = 0.63 Kg. Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
595	Bright finished or black enamelled mild steel butt hinqes 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
9999	For screws and nuts and bolts	L.S.	35.88	2.00	71.76
9999	For applying steel primer	L.S.	17.94	2.00	35.88
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0013	Blacksmith 2nd class	day	0.04	374.50	14.98
0019	Fitter (grade 1)	day	0.06	476.00	28.56
0017	Beldar	day	0.08	320.83	25.67
9999	Sundries	L.S.	3.64	2.00	7.28
	TOTAL				621.82 W
	Add 1 % Water charges on "W"				6.22
	TOTAL				628.03 X
	Add GST (multiplying factor 0.1405) on "X"				88.24
	TOTAL				716.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.44
	Total				823.71 Z
	Add Cess @ 1% on "Z"				8.24
	Cost for 7.13Kg.				831.95
	Cost for 1 Kg.				116.68
	Say				116.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
10.16.1	Hot finished welded type tubes				
	Details of cost for a truss of span 8 metre weight = 119 kg.				
	MATERIAL				
	50mm dia. tube				
	Tie beam-1x8.0m = 8.00m+				
	Principal rafter 2x4.30m = 8.60m				
	Total = 16.60m				
	16.60m @ 5.10kg./m = 84.66kg.				
	40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)				
	Total = 2x4.75=9.50m				
	9.50m @ 3.61kg/m = 34.60Kg. Total = 118.96kg.				
	Add wastage @ 5% = 5.94Kg.				
	Total = 124.90Kg. Say 125 kg				
4009	Mild steel tubes hot finished welded type	kilo gram	125.00	57.00	7125.00
2205	Carriage of Steel	tonne	0.125	94.34	11.79
	Priming coat				
	50mm dia. tube 16.60x0.157m = 1.61sqm.				
	40mm dia. tube 9.50x0.125m = 1.91 sqm.				
	Total = 2.80 sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.80	33.30	93.24 A
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties:- 2x22/7x6.03=37.90cm.+				
	Members:- 2x4x2x22/7x4.83=242.87cm				
	Total= 356.57cm say 357cm				
1215	Welding by electric plant	cm	357.00	2.00	714.00
	LABOUR				
	For cutting, assembling & erection				
0012	Blacksmith 1st class	day	1.50	476.00	714.00
0010	Bandhani	day	0.75	320.83	240.62
0017	Beldar	day	5.50	320.83	1764.57
9999	Sundries	L.S.	80.73	2.00	161.46
	TOTAL				10824.68 W
	Add 1 % Water charges on "W-A"		10731.44		107.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				10932.00 X
	Add GST (multiplying factor 0.1405) on "X-A"	10838.75			1522.84
	TOTAL				12454.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	12361.60			1854.24
	Total				14309.08 Z
	Add Cess @ 1% on "Z-A"	14215.84			142.16
	Cost for 119 Kg.				14451.24
	Cost for 1 Kg.				121.44
	Say				121.45

10.16.2 Hot finished seamless type tubes

Details of cost for a truss of span 8 metre weight = 119 kg.

MATERIAL

50mm dia. tube

Tie beam- 1 x 8.0m = 8.00m +

Principal rafter 2x4.30m = 8.60m = 16.60m 16.60m

@ 5.10kg./ m = 84.66 kg. 40mm dia. tube

Members = 2(0.45+1.25+0.90+2.15)

Total= 2x 4.75 = 9.50m 9.50m @ 3.61kg/m =

34.60kg. Total = 118.96kg.

Add wastage @ 5% = 5.94kg.

Total=124.90kg. say 125 kg

4010	Mild steel tubes hot finished seamless type	kilo gram	125.00	67.00	8375.00
2205	Carriage of Steel	tonne	0.125	94.34	11.79
	Priming coat				
	50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. =2.80 sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.80	33.30	93.24 A
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties :- 2x22/7x6.03=37.90cm.+				
	Members :- 2x4x2x22/7x4.83 = 242.87cm				
	Total= 356.57 cm say 357 cm				
1215	Welding by electric plant	cm	357.00	2.00	714.00
	LABOUR				
0012	Blacksmith 1st class	day	1.50	476.00	714.00
0010	Bandhani	day	0.75	320.83	240.62
0017	Beldar	day	5.50	320.83	1764.57
9999	Sundries	L.S.	80.73	2.00	161.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				12074.68 W
	Add 1 % Water charges on "W-A"	11981.44			119.81
	TOTAL				12194.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	12101.25			1700.23
	TOTAL				13894.72 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	13801.48			2070.22
	Total				15964.94 Z
	Add Cess @ 1% on "Z-A"	15871.70			158.72
	Cost for 119 Kg.				16123.66
	Cost for 1 Kg.				135.49
	Say				135.50

10.16.3 Electric resistance or induction butt welded tubes

Details of cost for a truss of span 8 metre weight = 119 kg.

MATERIAL

50mm dia. tube

Tie beam-1x8.0m = 8.00m+

Principal rafter 2x4.30m = 8.60m

Total = 16.60m

16.60m @ 5.10kg./m = 84.66kg. 40mm dia. tube

Members = 2(0.45+1.25+0.90+2.15)

Total = 2x4.75=9.50m

9.50m @ 3.61kg/m = 34.60Kg. Total = 118.96kg.

Add wastage @ 5% = 5.94Kg.

Total = 124.90Kg. say 125 kg

4011	Mild steel tubes electric resistant or inductionbutt welded	kilogram	125.00	47.00	5875.00
2205	Carriage of Steel	tonne	0.125	94.34	11.79
	Priming coat				
	50mm dia. tube 16.60x0.157m = 1.61sqm.				
	40mm dia. tube 9.50x0.125m = 1.91 sqm.				
	Total = 2.80 sqm.				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	2.80	33.30	93.24 A
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties:- 2x22/7x6.03=37.90cm.+				
	Members:- 2x4x2x22/7x4.83=242.87cm				
	Total= 356.57cm say 357cm				
1215	Welding by electric plant	cm	357.00	2.00	714.00
	LABOUR				
0012	Blacksmith 1st class	day	1.50	476.00	714.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0010	Bandhani	day	0.75	320.83	240.62
0017	Beldar	day	5.50	320.83	1764.57
9999	Sundries	L.S.	80.73	2.00	161.46
	TOTAL				9574.68 W
	Add 1 % Water charges on "W-A"	9481.44			94.81
	TOTAL				9669.50 X
	Add GST (multiplying factor 0.1405) on "X-A"	9576.25			1345.46
	TOTAL				11014.96 Y
	Add 15 % Contractor's profit and overheads on "Y- ^"	10921.72			1638.26
	Total				12653.22 Z
	Add Cess @ 1% on "Z-A"	12559.98			125.60
	Cost for 119 Kg.				12778.82
	Cost for 1 Kg.				107.39
	Say				107.40
10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.				
	Details of cost for 1 clamp				
	MATERIAL				
	16mm dia. M.S. bar 1m @ 1.58 kg/m				
	1x1.58 = 1.58Kg+				
	Add wastage @ 5% = 0.08 Kg.				
	Total = 1.66 Kg.				
	Say 1.70kg. or 0.017q				
1003	Mild steel round bar above 12 mm dia	quintal	0.017	4400.00	74.80
	LABOUR				
0013	Blacksmith 2nd class	day	0.04	374.50	14.98
0017	Beldar	day	0.04	320.83	12.83
9988	Sundries (Carriage, fixing and painting etc.)	L.S.	1.82	2.00	3.64
	TOTAL				106.25 W
	Add 1 % Water charges on "W"				1.06
	TOTAL				107.32 X
	Add GST (multiplying factor 0.1405) on "X"				15.08
	TOTAL				122.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.36
	Total				140.75 Z
	Add Cess @ 1% on "Z"				1.41
	Cost for 1 clamp				142.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				142.15
10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.				
	Details of cost of one box clamp				
	MATERIAL				
4012	Circular C.I. Box for ceiling fan 12mm dia. M.S. bar 80cm @ 0.9kg/m = 0.72kg+ Add wastage @ 5% = 0.036 Total = 0.756 kg. Say 0.008 q	each	1.00	52.00	52.00
1002	Mild steel round bar 12 mm dia and below LABOUR	quintal	0.008	4500.00	36.00
0013	Blacksmith 2nd class	day	0.03	374.50	11.24
0017	Beldar	day	0.03	320.83	9.62
9988	Sundries (Carriage, fixing and painting etc.)	L.S.	1.82	2.00	3.64
	TOTAL				112.50 W
	Add 1 % Water charges on "W"				1.12
	TOTAL				113.62 X
	Add GST (multiplying factor 0.1405) on "X"				15.96
	TOTAL				129.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.44
	Total				149.03 Z
	Add Cess @ 1% on "Z"				1.49
	Cost for 1 box clamp				150.52
	Say				150.50
10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.				
	Details of cost for one bolt 16mm dia. and 1200mm long.				
	MATERIAL				
	l .2m @ 1.58kg/m = 1.895 kg = 0.019q				
1035	Bolts and nuts above 300 mm in length Plate- 100x100x6mm @ 47kg/sqm. Wt. = 0.47kg. = 0.005q	quintal	0.019	5100.00	96.90
1010	Mild steel plates	quintal	0.005	4800.00	24.00
	LABOUR				
0013	Blacksmith 2nd class	day	0.03	374.50	11.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage and labour for fixing	L.S.	4.55	2.00	9.10
	TOTAL				141.24 W
	Add 1 % Water charges on "W"				1.41
	TOTAL				142.65 X
	Add GST (multiplying factor 0.1405) on "X"				20.04
	TOTAL				162.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.40
	Total				187.09 Z
	Add Cess @ 1% on "Z"				1.87
	Cost of 0.024q				188.96
	Cost of 1 kg.				78.73
	Say				78.75

10.20 Providing and fixing bolts including nuts and washers complete.

Details of cost for 0.10q of nuts and washers

MATERIAL

1034	Bolts and nuts upto 300 mm in length	quintal	0.10	4800.00	480.00
2205	Carriage of Steel	tonne	0.01	94.34	0.94

LABOUR

0013	Blacksmith 2nd class	day	0.38	374.50	142.31
0017	Beldar	day	0.38	320.83	121.92
9999	Sundries	L.S.	4.55	2.00	9.10

TOTAL 754.27 W

Add 1 % Water charges on "W" 7.54

TOTAL 761.81 X

Add GST (multiplying factor 0.1405) on "X" 107.03

TOTAL 868.85 Y

Add 15 % Contractor's profit and overheads on "Y" 130.33

Total 999.17 Z

Add Cess @ 1% on "Z" 9.99

Cost of 0.10q 1009.16

Cost of 1 kg. 100.92

Say 100.90

10.21 Providing and fixing M.S. rivets of sizes in position.

Details of cost for 0.10q of rivets

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1020	Mild steel rivets	quintal	0.10	5000.00	500.00
2205	Carriage of Steel	tonne	0.01	94.34	0.94
	LABOUR				
0019	Fitter (grade 1)	day	0.83	476.00	395.08
0037	Skilled Beldar (for floor rubbing etc.)	day	0.83	320.83	266.29
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				1183.89 W
	Add 1 % Water charges on "W"				11.84
	TOTAL				1195.73 X
	Add GST (multiplying factor 0.1405) on "X"				168.00
	TOTAL				1363.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				204.56
	Total				1568.29 Z
	Add Cess @ 1% on "Z"				15.68
	Cost of 0.10q				1583.97
	Cost of 1 kg.				158.40
	Say				158.40
10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.				
	Details of cost for one cm.				
1214	Welding by gas plant	cm	1.00	2.00	2.00
	including transportation of welding plant at site etc. complete				
9999	Sundries	L.S.	0.26	2.00	0.52
	TOTAL				2.52 W
	Add 1 % Water charges on "W"				0.03
	TOTAL				2.55 X
	Add GST (multiplying factor 0.1405) on "X"				0.36
	TOTAL				2.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				0.44
	Total				3.34 Z
	Add Cess @ 1% on "Z"				0.03
	Cost of 1cm.				3.37
	Say				3.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete				
	Detail of cost for 5.331 Qtls.				
	Consider a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide.				
	MATERIAL				
	(i) Unequal angles as stringers-75x50x6mm $4 \times 12.69 \times 5.6 = 284.25 \text{ Kg.}$ Add wastage @ 5% = 14.21 Kg. Total = 298.46kg. Say 2.985q				
	(ii) unequal angles at sides -50x30x5mm $2 \times 14 \times 0.2 \times 3.00 = 16.8 \text{ kg.}$ Add wastage @ 5% = 0.84kg. Total = 17.64 kg. Say 0.176q Total = 3.161q				
1007	Structurals such as tees, angles channels and R.S. joists (iii) plate for tread 8mm thick $14 \times 7.5 = 105.00 \text{ kg+}$ Add wastage @ 5% = 5.25kg. Total = 110.25kg. Say 1.103q	quintal	3.161	4600.00	14540.60
1010	Mild steel plates (iv) G.I. pipe for rolling 40mm $2 \times 12.69 \text{ m} = 25.38 \text{ m+}$ Add wastage @ 5% = 1.27m Total = 26.65m	quintal	1.103	4800.00	5294.40
1549	G.I. pipes 40 mm dia (v) M.S. round bars 16mm dia. $15 \times 0.75 \times 2 \times 1.58 = 35.55 \text{ kg.}$ Add wastage @ 5% = 1.78kg. Total = 37.33 Kg. Say 0.373q	metre	26.65	250.00	6662.50
1003	Mild steel round bar above 12 mm dia	quintal	0.373	4400.00	1641.20
2205	Carriage of Steel $(3.161 + 1.103 + 0.373) = 4.637 \text{ q} = 0.4637 \text{ tonne}$	tonne	0.4637	94.34	43.74
2271	Carriage of G.I. pipes below 100 mm dia approx. wt. $3.72 \times 26.65 = 99.14 \text{ kg} = 0.0991 \text{ q.}$	tonne	0.0991	94.34	9.35
1215	Welding by electric plant 23.20 m = 2320cm	cm	2320	2.00	4640.00
	LABOUR				
0012	Blacksmith 1st class	day	1.85	476.00	880.60
0017	Beldar	day	1.25	320.83	401.04
0010	Bandhani	day	0.60	320.83	192.50
	Applying priming coat (i) steps $2.4 \times 14 = 33.60 \text{ sqm.}$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) angles-4x12.69x0.25 = 12.69sqm.+ (iii) Bars and other components = 2.00 sqm. (L.S.) Total = 48.29 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	48.29	33.30	1608.11 A
9999	Sundries	L.S.	110.89	2.00	221.78
	TOTAL				36135.82 W
	Add 1 % Water charges on "W-A"		34527.71		345.28
	TOTAL				36481.10 X
	Add GST (multiplying factor 0.1405) on "X-A"		34872.99		4899.65
	TOTAL				41380.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		39772.64		5965.90
	Total				47346.65 Z
	Add Cess @ 1% on "Z-A"		45738.54		457.39
	Cost of 5.331 quintal				47804.03
	Cost per kg.				89.67
	Say				89.65

10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works

Details of 1mx1m framed guard bar grating.

MATERIAL

(i) M.S. flat 50x6mm 2.4kg/per metre

5.75x2.40 = 13.8kg.+

Add wastage @ 5% = 0.69kg.

Total = 14.49kg. Say 14.5 kg.

1008	Flats upto 10 mm in thickness	quintal	0.145	4500.00	652.50

(ii) 12mm dia. bars @ 0.89 kg/m 9x1= 9metre @
0.89kg/m = 8.01kg+ Add wastage @ 5% = 0.40kg.

Total = 8.41 kg. Say 0.084q

1002	Mild steel round bar 12 mm dia and below	quintal	0.084	4500.00	378.00

2205	Carriage of Steel	tonne	0.0229	94.34	2.16

1215	Welding by electric plant	cm	60.00	2.00	120.00

60 cm

LABOUR

0012	Blacksmith 1st class	day	0.70	476.00	333.20

0017	Beldar	day	0.50	320.83	160.42

0010	Bandhani	day	0.25	320.83	80.21

Applying priming coat 0.6 sqm.

13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.60	33.30	19.98 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	4.55	2	9.10
	TOTAL				1755.56 W
	Add 1 % Water charges on "W-A"		1735.58		17.36
	TOTAL				1772.92 X
	Add GST (multiplying factor 0.1405) on "X-A"		1752.94		246.29
	TOTAL				2019.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1999.23		299.88
	Total				2319.09 Z
	Add Cess @ 1% on "Z-A"		2299.11		22.99
	Cost of 0.218 qunital				2342.08
	Cost per kg				107.43
	Say				107.45
10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
10.26.1	M.S. tube				
	Detail of cost for 19.49 Kg.				
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m				
	MATERIAL				
	M.S. tube 40mm nominal bore (medium) =				
	5.40m @ 3.61kg/m= 19.49kg				
	Add wastage @ 5% = 0.97 kg				
	Total = 20.46 kg				
4009	Mild steel tubes hot finished welded type	kilo	20.46	57.00	1166.22
2205	Carriage of Steel	gram			
	20.46kg = 0.0205q	tonne	0.0205	94.34	1.93
	Priming coat 40mm dia. Tube				
	5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.82	33.30	27.31 A
1215	Welding by electric plant	cm	72.00	2.00	144.00
	(joints of hand rail and ballustards)				
	18x4x1.00 = 72cm				
	Labour for cutting assembling & erection				
	LABOUR				
0012	Blacksmith 1st class	day	0.24	476.00	114.24
0017	Beldar	day	0.90	320.83	288.75
0010	Bandhani	day	0.12	320.83	38.50
9999	Sundries	L.S.	12.48	2.00	24.96
	TOTAL				1805.91 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"		1778.60		17.79
	TOTAL				1823.69 X
	Add GST (multiplying factor 0.1405) on "X-A"		1796.39		252.39
	TOTAL				2076.09 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		2048.78		307.32
	Total				2383.40 Z
	Add Cess @ 1% on "Z-A"		2356.10		23.56
	Cost of 19.49 Kg.				2406.96
	Cost per 1 kg.				123.50
	Say				123.50

10.26.2 E.R.W. tubes

Detail of cost for 17.71 Kg.

Details of cost for hand rail of railing of two flights of staircase, length of hand rail =5.40m

MATERIAL

E.R.W. tube 40mm nominal bore =

5.40m @

3.28kg/m= 17.71kg

Add wastage @ 5% = 0.88 kg

Total = 18.59 kg

4011	Mild steel tubes electric resistant or inductionbutt welded	kilogram	18.59	47.00	873.73
2205	Carriage of Steel	tonne	0.0186	94.34	1.75
	18.59kg = 0.0186q				
	Priming coat 40mm dia. Tube				
	5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.82	33.30	27.31 A
1215	Welding by electric plant	cm	72.00	2.00	144.00
	(joints of hand rail and ballustards)				
	18x4x1.00 = 72cm				
	Labour for cutting assembling & erection				
	LABOUR				
0012	Blacksmith 1st class	day	0.24	476.00	114.24
0017	Beldar	day	0.90	320.83	288.75
0010	Bandhani	day	0.12	320.83	38.50
9999	Sundries	L.S.	12.48	2.00	24.96
	TOTAL				1513.24 W
	Add 1 % Water charges on "W-A"		1485.93		14.86
	TOTAL				1528.10 X
	Add GST (multiplying factor 0.1405) on "X-A"		1500.79		210.86
	TOTAL				1738.96 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1711.65		256.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1995.71 Z
	Add Cess @ 1% on "Z-A"		1968.40		19.68
	Cost of 17.71 Kg.				2015.39
	Cost per 1 kg.				113.80
	Say				113.80
10.26.3	G.I. pipes				
	Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m i.e. 20.09 kg				
	MATERIAL				
	G.I. pipe 40mm nominal bore = 5.40m				
	Add wastage @ 5% = 0.27m				
	Total = 5.67m				
1549	G.I. pipes 40 mm dia	metre	5.67	250.00	1417.50
2271	Carriage of G.I. pipes below 100 mm dia (5.67m @ 3.72 kg/m = 21.09kg)	tonne	0.0211	94.34	1.99
	Priming coat 40mm dia.Tube 5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.82	33.30	27.31 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72	2.00	144.00
	LABOUR				
	Labour for cutting assembling & erection				
0012	Blacksmith 1st class	day	0.24	476.00	114.24
0017	Beldar	day	0.9	320.83	288.75
0010	Bandhani	day	0.12	320.83	38.50
9999	Sundries	L.S.	12.48	2.00	24.96
	TOTAL				2057.24
	Add 1 % Water charges on "W-A"		2029.94		20.30
	TOTAL				2077.54 X
	Add GST (multiplying factor 0.1405) on "X-A"		2050.24		288.06
	TOTAL				2365.60 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		2338.29		350.74
	Total				2716.35 Z
	Add Cess @ 1% on "Z-A"		2689.04		26.89
	Cost of 20.09 Kg.				2743.24
	Cost per 1 kg.				136.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				136.55
10.27	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm²), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.				
10.27.1	10 x 60 mm				
	Details of cost for 10 nos.				
	MATERIAL				
2506	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 60mm	10 nos	1.00	260.00	260.00
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9977	Sundries for carriage of material	L.S.	10.00	2.00	20.00
	TOTAL				558.13 W
	Add 1 % Water charges on "W"				5.58
	TOTAL				563.71 X
	Add GST (multiplying factor 0.1405) on "X"				79.20
	TOTAL				642.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				96.44
	Total				739.35 Z
	Add Cess @ 1% on "Z"				7.39
	Cost of 10 Nos.				746.75
	Cost of 1 no				74.67
	Say				74.65
10.27.2	10 x 80 mm				
	Details of cost for 10 nos.				
	MATERIAL				
2507	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 80mm	10 nos	1.00	300.00	300
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.8
0017	Beldar	day	0.40	320.83	128.332
9977	Sundries for carriage of material	L.S.	10.00	2.00	20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				598.132 W
	Add 1 % Water charges on "W"				5.98
	TOTAL				604.11 X
	Add GST (multiplying factor 0.1405) on "X"				84.88
	TOTAL				688.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				103.35
	Total				792.34 Z
	Add Cess @ 1% on "Z"				7.92
	Cost of 10 Nos.				800.26
	Cost of 1 no				80.03
	Say				80.05
10.27.3	10 x 120 mm				
	Details of cost for 10 nos.				
	MATERIAL				
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polvamide PA 6 grade sleeve. Size 10mm x 120mm	10 nos	1.00	365.00	365.00
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9977	Sundries for carriage of material	L.S.	10.00	2.00	20.00
	TOTAL				732.67 W
	Add 1 % Water charges on "W"				7.33
	TOTAL				739.99 X
	Add GST (multiplying factor 0.1405) on "X"				103.97
	TOTAL				843.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				126.59
	Total				970.55 Z
	Add Cess @ 1% on "Z"				9.71
	Cost of 10 Nos.				980.26
	Cost of 1 no				98.03
	Say				98.05

10.27.4 10 x 140 mm

Details of cost for 10 nos.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2509	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 140mm LABOUR	10 nos	1.00	450.00	450.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9977	Sundries for carriage of material	L.S.	10.00	2.00	20.00
	TOTAL				817.67 W
	Add 1 % Water charges on "W"				8.18
	TOTAL				825.84 X
	Add GST (multiplying factor 0.1405) on "X"				116.03
	TOTAL				941.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				141.28
	Total				1083.15 Z
	Add Cess @ 1% on "Z"				10.83
	Cost of 10 Nos.				1093.98
	Cost of 1 no				109.40
	Say				109.40
10.27.5	10 x 160 mm				
	Details of cost for 10 nos.				
	MATERIAL				
2510	Carbon Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 160mm LABOUR	10 nos	1.00	575.00	575.00
0024	Mason (brick layer) 2nd class	day	0.60	374.50	224.70
0017	Beldar	day	0.60	320.83	192.50
9977	Sundries for Carriage of material	L.S.	10.00	2.00	20.00
	TOTAL				1012.20 W
	Add 1 % Water charges on "W"				10.12
	TOTAL				1022.32 X
	Add GST (multiplying factor 0.1405) on "X"				143.64
	TOTAL				1165.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				174.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1340.85 Z
	Add Cess @ 1% on "Z"				13.41
	Cost of 10 Nos.				1354.26
	Cost of 1 no				135.43
	Say				135.45
10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).				
	Details of cost for 2kg				
	MATERIAL				
	Qty= 2kg +				
	Add wastage @ 5% = 0.10				
	Total = 2.1 kg				
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	2.10	220.00	462.00
4002	Stainless steel bolts/square bar and plates	kg	1.00	115.00	115.00
	LABOUR				
	for fabrication, assembling, erection, welding, curva				
0012	Blacksmith 1st class	day	0.06	476.00	28.56
0017	Beldar	day	0.20	320.83	64.17
0010	Bandhani	day	0.02	320.83	6.42
9999	Welding of stainless steel section	L.S.	30.00	2.00	60.00
9999	Curvaturig, grinding, finishing, buffing	L.S.	20.00	2.00	40.00
9999	Sundries for making good wall and floors	L.S.	7.50	2.00	15.00
	TOTAL				791.14 W
	Add 1 % Water charges on "W"				7.91
	TOTAL				799.05 X
	Add GST (multiplying factor 0.1405) on "X"				112.27
	TOTAL				911.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				136.70
	Total				1048.02 Z
	Add Cess @ 1% on "Z"				10.48
	Cost of 2 kg				1058.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 kg.				529.25
	Say				529.25
10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
10.29.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides				
	Details of cost for a window shutter				
	1.40x1.10=1.54 sqm				
	MATERIAL				
	Wire gauze 1.40x1.10=1.54 sqm				
	Add wastage @ 10 %=0.15 sqm				
	Total=1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	1.69	250.00	422.50
9977	CARRIAGE	L.S.	1.82	2.00	3.64
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre				
	Add wastage @ 5%=0.25 m				
	Total=5.25 m				
	5.25@0.35kg/m=1.84 kg				
1008	Flats upto 10 mm in thickness	quintal	0.0184	4500.00	82.80
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64
0013	Blacksmith 2nd class	day	0.17	374.50	63.67
0015	Carpenter 2nd class	day	0.17	374.50	63.67
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				698.68 W
	Add 1 % Water charges on "W"				6.99
	TOTAL				705.67 X
	Add GST (multiplying factor 0.1405) on "X"				99.15
	TOTAL				804.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				120.72
	Total				925.53 Z
	Add Cess @ 1% on "Z"				9.26
	Cost of 1.54 sqm.				934.79
	Cost of 1 sqm.				607.01
	Say				607.00
10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window shutter				
	1.40x1.10=1.54 sqm				
	MATERIAL				
	Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	sqm	1.69	400.00	676.00
9977	CARRIAGE	L.S.	1.82	2.00	3.64
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg				
1008	Flats upto 10 mm in thickness	quintal	0.0184	4500.00	82.80
9977	CARRIAGE	L.S.	1.82	2.00	3.64
	LABOUR				
0013	Blacksmith 2nd class	day	0.17	374.50	63.67
0015	Carpenter 2nd class	day	0.17	374.50	63.67
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				952.18 W
	Add 1 % Water charges on "W"				9.52
	TOTAL				961.70 X
	Add GST (multiplying factor 0.1405) on "X"				135.12
	TOTAL				1096.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				164.52
	Total				1261.34 Z
	Add Cess @ 1% on "Z"				12.61
	Cost of 1.54 sqm.				1273.96
	Cost of 1 sqm.				827.24
	Say				827.25

10.30 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :

10.30.1 4.0 mm thick glass panes

Details of cost for 10 glass panes

(area of each pane = 0.10 sqm)

MATERIAL

Area of glass panes =1.00 sqm +
Add wastage @ 10% = 0.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total =1.10 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.10	300.00	330.00
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64
0021	Glazier	day	0.13	374.50	48.69
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	2.00	251.16
	TOTAL				633.49 W
	Add 1 % Water charges on "W"				6.33
	TOTAL				639.82 X
	Add GST (multiplying factor 0.1405) on "X"				89.89
	TOTAL				729.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				109.46
	Total				839.17 Z
	Add Cess @ 1% on "Z"				8.39
	Total				847.56
	Cost of 1.0 sqm				847.56
	Say				847.55

10.30.2 5.5 mm thick glass panes

Details of cost for 10 glass panes
(area of each pane = 0.10 sqm)

MATERIAL

Area of glass panes =1.00 sqm +

Add wastage @ 10% = 0.10

Total =1.10 sqm

2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	1.10	500.00	550.00
9977	CARRIAGE LABOUR	L.S.	1.82	2.00	3.64
0021	Glazier	day	0.13	374.50	48.69
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	2.00	251.16
	TOTAL				853.49 W
	Add 1 % Water charges on "W"				8.53
	TOTAL				862.02 X
	Add GST (multiplying factor 0.1405) on "X"				121.11
	TOTAL				983.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.47
	Total				1130.60 Z
	Add Cess @ 1% on "Z"				11.31
	Total				1141.91
	Cost of 1.0 sqm				1141.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1141.90
10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.				
	Details of cost for 17.50 kg				
	MATERIAL				
	Angle/Tee iron 40x40x6 mm= 2+2+1 = 5 m 5 Meters @3.5 Kg/m = 17.5 Kg+ Add Wastage @5% =0.87Kg. Total =18.37 Kg. Say 0.18 Quintal				
1007	Structural steel such as tees, angles, channels and R.S. Joists	quintal	0.18	4600.00	828.00
1008	M.S. Flats 3x5 mm for fixing frame 6x0.05= 0.3 Metre @1.18 Kg/m= 0.354 Kg Add wastage @5% = 0.018 Kg Total= 0.37Kg. Say 0.0037 Quintal	quintal	0.0037	4500.00	16.65
1002	M.S. Bars 10mm =1x1 m = 1Metre 1 Metre @0.60Kg/m =0.60Kg + Add wastage @5% = 0.03 Kg. Total =0.63 Kg, say 0.006 Quintal Mild steel round bars 10mm dia and below	quintal	0.006	4500.00	27.00
9999	For applying steel primer	L.S.	17.94	2.00	35.88
9999	Carriage of material	L.S.	5.33	2.00	10.66
1215	Welding by electric plant	cm	16.00	2.00	32.00
	LABOUR				
0013	Blacksmith 2nd Class	day	0.10	374.50	37.45
0019	Fitter (Grade-I)	day	0.15	476.00	71.40
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				1141.15 W
	Add 1 % Water charges on "W"				11.41
	TOTAL				1152.56 X
	Add GST (multiplying factor 0.1405) on "X"				161.93
	TOTAL				1314.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				197.17
	Total				1511.67 Z
	Add Cess @ 1% on "Z"				15.12
	Cost for 17.50 kg				1526.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate per kg				87.24
	Say				87.25

SUB HEAD : 11.0

FLOORING

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:				
11.1.1	1:4 (1 cement : 4 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.565	4500.00	2542.50
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.434	3815.05	1655.73
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	1.62	320.83	519.74
0011	Bhisti	day	0.27	320.83	86.62
	TOTAL				5549.86 W
	Add 1 % Water charges on "W"				55.50
	TOTAL				5605.36 X
	Add GST (multiplying factor 0.1405) on "X"				787.55
	TOTAL				6392.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				958.94
	Total				7351.84 Z
	Add Cess @ 1% on "Z"				73.52
	Cost of 10 sqm.				7425.36
	Cost of 1 sqm.				742.54
	Say				742.55
11.1.2	1:6 (1cement : 6 coarse sand)				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.565	4500.00	2542.50
2201	Carriage of Bricks	1000 Nos	0.565	283.01	159.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.434	3160.60	1371.70
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	1.62	320.83	519.74
0011	Bhisti	day	0.27	320.83	86.62
	TOTAL				5265.83 W
	Add 1 % Water charges on "W"				52.66
	TOTAL				5318.49 X
	Add GST (multiplying factor 0.1405) on "X"				747.25
	TOTAL				6065.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				909.86
	Total				6975.59 Z
	Add Cess @ 1% on "Z"				69.76
	Cost of 10 sqm.				7045.35
	Cost of 1 sqm.				704.53
	Say				704.55
11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Sand, with common burnt clay non modular bricks.				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.645	4500.00	2902.50
2201	Carriage of Bricks	1000 Nos	0.645	283.01	182.54
983	Fine sand	cum	0.15	900.00	135.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) Mud Mortar	cum	0.15	106.13	15.92
					0.00
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.15	494.30	74.15
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.90	374.50	337.05
0018	Coolie	day	1.98	320.83	635.24
0011	Bhisti	day	0.05	320.83	16.04
	TOTAL				4298.44 W
	Add 1 % Water charges on "W"				42.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4341.43 X
	Add GST (multiplying factor 0.1405) on "X"				609.97
	TOTAL				4951.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				742.71
	Total				5694.11 Z
	Add Cess @ 1% on "Z"				56.94
	Cost of 10 sqm.				5751.05
	Cost of 1 sqm.				575.10
	Say				575.10
11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
11.3.1	40 mm thick with 20 mm nominal size stone aggregate				
	Details of cost for 10 sqm.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal s	cum	0.267	1350.00	360.45
297	Stone Aggregate (Single size) : 10 mm nominal s	cum	0.089	1350.00	120.15
2202	Carriage of Stone aggregate below 40 mm nomir	cum	0.356	106.13	37.78
982	Coarse sand	cum	0.178	1350.00	240.30
2203	Carriage of Coarse sand	cum	0.178	106.13	18.89
367	Portland Cement	tonne	0.17	4940.00	839.80
2209	Carriage of Cement	tonne	0.17	94.34	16.04
	LABOUR				0.00
0024	Mason (brick layer) 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	1.40	320.83	449.16
0011	Bhisti	day	1.04	320.83	333.66
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				2832.46 W
	Add 1 % Water charges on "W"				28.32
	TOTAL				2860.78 X
	Add GST (multiplying factor 0.1405) on "X"				401.94
	TOTAL				3262.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				489.41
	Total				3752.13 Z
	Add Cess @ 1% on "Z"				37.52
	Cost of 10 sqm.				3789.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				378.96
	Say				378.95
11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.				
	Details of cost for 10 sqm.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1350.00	360.45
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1350.00	120.15
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.356	106.13	37.78
982	Coarse sand	cum	0.178	1350.00	240.30
2203	Carriage of Coarse sand	cum	0.178	106.13	18.89
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1400.00	161.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.115	106.13	12.20
367	Portland Cement	tonne	0.211	4940.00	1042.34
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.231	94.34	21.79
7254	Hardening compound	litre	2.44	38.00	92.72
9977	Carriage of hard crete	L.S.	2.73	2.00	5.46
	LABOUR				
0024	Mason (brick layer) 2nd class	day	2.15	374.50	805.18
0017	Beldar	day	1.60	320.83	513.33
0018	Coolie	day	1.88	320.83	603.16
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	53.82	2.00	107.64
	TOTAL				4327.82 W
	Add 1 % Water charges on "W"				43.28
	TOTAL				4371.10 X
	Add GST (multiplying factor 0.1405) on "X"				614.14
	TOTAL				4985.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				747.79
	Total				5733.02 Z
	Add Cess @ 1% on "Z"				57.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 sqm.				5790.35
	Cost of 1 sqm.				579.04
	Say				579.05
11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.				
	Details of cost for 10 sqm.				
	MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.334	1350.00	450.90
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.111	1350.00	149.85
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.445	106.13	47.23
982	Coarse sand	cum	0.222	1350.00	299.70
2203	Carriage of Coarse sand	cum	0.222	106.13	23.56
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1400.00	161.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.115	106.13	12.20
367	Portland Cement	tonne	0.243	4940.00	1200.42
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.263	94.34	24.81
7254	Hardening compound	litre	2.44	38.00	92.72
9977	Carriage of Hardening compound	L.S.	2.73	2.00	5.46
	LABOUR				
0024	Mason (brick layer) 2nd class	day	2.15	374.50	805.18
0017	Beldar	day	1.86	320.83	596.74
0018	Coolie	day	1.88	320.83	603.16
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	53.82	2.00	107.64
	TOTAL				4766.00 W
	Add 1 % Water charges on "W"				47.66
	TOTAL				4813.66 X
	Add GST (multiplying factor 0.1405) on "X"				676.32
	TOTAL				5489.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				823.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				6313.47 Z
	Add Cess @ 1% on "Z"				63.13
	Cost of 10 sqm.				6376.61
	Cost of 1 sqm.				637.66
	Say				637.65
11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.				
11.6.1	18 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
	Cement mortar 1:3 = 0.205 cum+ Add for rounding corners = 0.030 cum = 0.235 cum.				
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.235	4469.50	1050.33
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.88	374.50	704.06
0018	Coolie	day	1.88	320.83	603.16
0011	Bhisti	day	0.54	320.83	173.25
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				2671.01 W
	Add 1 % Water charges on "W"				26.71
	TOTAL				2697.72 X
	Add GST (multiplying factor 0.1405) on "X"				379.03
	TOTAL				3076.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				461.51
	Total				3538.26 Z
	Add Cess @ 1% on "Z"				35.38
	Cost of 10 sqm.				3573.64
	Cost of 1 sqm.				357.36
	Say				357.35
11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.				
	Details of cost for one cum.				
	MATERIAL				
	Cement concrete 1:2:4				
4.1.3	Rate as per item No.4.1.3 of S.H.Concrete Work	cum	1.00	5954.35	5954.35 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra labour for laying in floors etc.				
0024	Mason (brick layer) 2nd class	day	0.35	374.50	131.08
0017	Beldar	day	0.18	320.83	57.75
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	19.76	2.00	39.52
	TOTAL				6198.73 W
	Add 1 % Water charges on "W-A"	244.39			2.44
	TOTAL				6201.18 X
	Add GST (multiplying factor 0.1405) on "X-A"	246.83			34.68
	TOTAL				6235.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	281.51			42.23
	Total				6278.08 Z
	Add Cess @ 1% on "Z-A"	323.74			3.24
	Cost of 1 Cum.				6281.32
	Say				6281.30
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.				
	Details of cost for 10 sqm.				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0017	Beldar	day	0.36	320.83	115.50
9999	Chequered plate etc.	L.S.	13.52	2.00	27.04
	TOTAL				277.36 W
	Add 1 % Water charges on "W"				2.77
	TOTAL				280.13 X
	Add GST (multiplying factor 0.1405) on "X"				39.36
	TOTAL				319.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.92
	Total				367.41 Z
	Add Cess @ 1% on "Z"				3.67
	Cost of 10 sqm.				371.09
	Cost of 1 sqm.				37.11
	Say				37.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume, including cement slurry etc. complete :				
11.9.1	Dark shade pigment with ordinary cement				
	Details of cost for 10 sqm.				
	MATERIAL				
	For under layer of 34mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1350.00	306.45
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1350.00	102.60
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.303	106.13	32.16
982	Coarse sand	cum	0.151	1350.00	203.85
2203	Carriage of Coarse sand	cum	0.151	106.13	16.03
367	Portland Cement	tonne	0.109	4940.00	538.46
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement for top layer 6mm thick	tonne	0.129	94.34	12.17
785	Marble chips upto 4mm and downsize White & black	quintal	0.872	189.00	164.81
2268	Carriage of Marble dust and marble chips	cum	0.051	106.13	5.41
367	Portland Cement	tonne	0.0405	4940.00	200.07
2209	Carriage of Cement	tonne	0.0405	94.34	3.82
784	Marble dust/ powder	cum	0.007	1130.00	7.91
874	Black colour dark shade pigment	kilogram	2.84	70.00	198.80
	3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg				
9977	Carriage of pigment & marble powder etc.	L.S.	3.64	2.00	7.28
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	161.46	2.00	322.92
	Total				4700.59 W
	Add 1 % Water charges on "W"				47.01
	TOTAL				4747.60 X
	Add GST (multiplying factor 0.1405) on "X"				667.04
	TOTAL				5414.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				812.20
	Total				6226.83 Z
	Add Cess @ 1% on "Z"				62.27
	Cost of 10 sqm.				6289.10
	Cost of 1 sqm.				628.91
	Say				628.90
11.9.2	Light shade pigment with white cement				
	Details of cost for 10 sqm.				
11.9.1	Rate as per item no 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	628.90	6289.00 A
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	60.00	170.40 0.00
874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-2.84	70.00	-198.80
368	White Cement Deduct for	tonne	0.0405	11200.00	453.60
367	Portland Cement	tonne	-0.0405	4940.00	-200.07
	Total				6514.13 W
	Add 1 % Water charges on "W-A"	225.13			2.25
	TOTAL				6516.38 X
	Add GST (multiplying factor 0.1405) on "X-A"	227.38			31.95
	TOTAL				6548.33 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	259.33			38.90
	Total				6587.23 Z
	Add Cess @ 1% on "Z-A"	298.23			2.98
	Cost of 10 sqm				6590.21
	Cost of 1 sqm				659.02
	Say				659.00
11.9.3	Medium shade pigment with 50% white cement and 50% ordinary cement				
	Details of cost for 10 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9.1	Rate as per item no 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	628.90	6289.00 A
876	Green or blue medium shade pigment Deduct for	kilogram	2.84	56.00	159.04
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	Add difference of cost due to using white cement instead of grey cement Add for				
368	White Cement Deduct for	tonne	0.0203	11200.00	227.36
367	Portland Cement	tonne	-0.0203	4940.00	-100.28
	Total				6376.32 W
	Add 1 % Water charges on "W-A"	87.32			0.87
	TOTAL				6377.19 X
	Add GST (multiplying factor 0.1405) on "X-A"	88.19			12.39
	TOTAL				6389.58 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	100.58			15.09
	Total				6404.67 Z
	Add Cess @ 1% on "Z-A"	115.67			1.16
	Cost of 10 sqm				6405.83
	Cost of 1 sqm				640.58
	Say				640.60
11.9.4	White cement without any pigment				
	Details of cost for 10 sqm.				
	MATERIAL				
	For under layer of 34mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1350.00	306.45
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1350.00	102.60
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.303	106.13	32.16
982	Coarse sand	cum	0.151	1350.00	203.85
2203	Carriage of Coarse sand	cum	0.151	106.13	16.03
367	Portland Cement	tonne	0.109	4940.00	538.46
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement for top layer 6mm thick	tonne	0.129	94.34	12.17
785	Marble chips upto 4mm and downsize White & black	quintal	0.958	189.00	181.06
2268	Carriage of Marble dust and marble chips	cum	0.056	106.13	5.94
368	White Cement	tonne	0.0405	11200.00	453.60
2209	Carriage of Cement	tonne	0.0405	94.34	3.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
784	Marble dust/ powder	cum	0.007	1130.00	7.91
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	161.46	2.00	322.92
	Total				4764.83 W
	Add 1 % Water charges on "W"				47.65
	TOTAL				4812.48 X
	Add GST (multiplying factor 0.1405) on "X"				676.15
	TOTAL				5488.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				823.29
	Total				6311.92 Z
	Add Cess @ 1% on "Z"				63.12
	Cost of 10 sqm				6375.04
	Cost of 1 sqm				637.50
	Say				637.50
11.9.5	Light shade pigment with ordinary cement				
	Details of cost for 10 sqm.				
11.9.1	Rate as per item no 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	628.90	6289.00 A
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	60.00	170.40
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	Total				6260.60 W
	Add 1 % Water charges on "W-A"	-28.40			-0.28
	TOTAL				6260.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	-28.68			-4.03
	TOTAL				6256.29 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"		-32.71		-4.91	
	Total				6251.38	Z
	Add Cess @ 1% on "Z-A"		-37.62		-0.38	
	Cost of 10 sqm				6251.00	
	Cost of 1 sqm				625.10	
	Say				625.10	
11.9.6	Ordinary cement without any pigment					
	Details of cost for 10 sqm.					
11.9.1	Rate as per item no 11.9.1 of SH: Flooring	sqm	10.00	628.90	6289.00	A
	Less cost of dark shade pigment					
	Deduct for					
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80	
9999	Deduct for carriage of pigment	L.S.	-7.38	2.00	-14.76	
	Total				6075.44	W
	Add 1 % Water charges on "W-A"		-213.56		-2.14	
	TOTAL				6073.31	X
	Add GST (multiplying factor 0.1405) on "X-A"		-215.70		-30.31	
	TOTAL				6043.00	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		-246.00		-36.90	
	Total				6006.10	Z
	Add Cess @ 1% on "Z-A"		-282.90		-2.83	
	Cost of 10 sqm				6003.27	
	Cost of 1 sqm				600.33	
	Say				600.35	
11.10	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder : 7 marble chips) by volume, including cement slurry etc. complete.					
11.10.1	Dark shade pigment with Ordinary cement					
	Details of cost for 10 sqm					
	MATERIAL					
	For Under layer of 31 mm thick					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1350.00	283.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1350.00	94.50
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	106.13	29.72
982	Coarse sand	cum	0.14	1350.00	189.00
2203	Carriage of Coarse sand	cum	0.14	106.13	14.86
367	Portland Cement	tonne	0.1005	4940.00	496.47
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement for top layer 9mm thick	tonne	0.1205	94.34	11.37
788	Marble chips large size above 4 mm White & black	quintal	1.40	250.00	350.00
2268	Carriage of Marble dust and marble chips	cum	0.082	106.13	8.70
367	Portland Cement	tonne	0.0578	4940.00	285.53
2209	Carriage of Cement	tonne	0.0578	94.34	5.45
784	Marble dust/ powder	cum	0.012	1130.00	13.56
874	Black colour dark shade pigment	kilogram	4.05	70.00	283.50
	3.5kg/ 50kg of cement = 57.80x3.5/50=4.05kg				
9977	Carriage of pigment & marble powder etc.	L.S.	5.46	2.00	10.92
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	2.00	269.10
	Total				4924.04 W
	Add 1 % Water charges on "W"				49.24
	TOTAL				4973.28 X
	Add GST (multiplying factor 0.1405) on "X"				698.75
	TOTAL				5672.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				850.80
	Total				6522.83 Z
	Add Cess @ 1% on "Z"				65.23
	Cost of 10 sqm				6588.06
	Cost of 1 sqm				658.81
	Say				658.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
11.10.2	Light shade pigment with white cement					
	Details of cost for 10 sqm					
11.10.1	Rate as per item no 11.10.1 of SH: Flooring	sqm	10.00	658.80	6587.96	A
	Add difference of cost due to using light shade pigment instead of dark shade pigment Add for					
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	4.05	60.00	243.00	
874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-4.05	70.00	-283.50	
368	White Cement Deduct for	tonne	0.0578	11200.00	647.36	
367	Portland Cement	tonne	-0.0578	4940.00	-285.53	
	Total				6909.29	W
	Add 1 % Water charges on "W-A"		321.33		3.21	
	TOTAL				6912.50	X
	Add GST (multiplying factor 0.1405) on "X-A"		324.54		45.60	
	TOTAL				6958.10	Y
	Add 15 % Contractor's profit and overheads on "		370.14		55.52	
	Total				7013.62	Z
	Add Cess @ 1% on "Z-A"		425.66		4.26	
	Cost of 10 sqm				7017.87	
	Cost of 1 sqm				701.79	
	Say				701.80	
11.10.3	Medium shade pigment with 50% white cement and 50% ordinary cement					
	Details of cost for 10 sqm					
11.10.1	Rate as per item no 11.10.1 of SH: Flooring Add	sqm	10.00	658.80	6587.96	A
876	Green or blue medium shade pigment Deduct for	kilogram	4.05	56.00	226.80	
874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-4.05	70.00	-283.50	
368	White Cement Deduct for	tonne	0.0289	11200.00	323.68	
367	Portland Cement	tonne	-0.0289	4940.00	-142.77	
	Total				6712.17	W
	Add 1 % Water charges on "W-A"		124.21		1.24	
	TOTAL				6713.41	X
	Add GST (multiplying factor 0.1405) on "X-A"		125.46		17.63	
	TOTAL				6731.04	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		143.08		21.46	
	Total				6752.50	Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"	164.55			1.65
	Cost of 10 sqm				6754.15
	Cost of 1 sqm				675.41
	Say				675.40
11.10.4	White cement without any pigment				
	Details of cost for 10 sqm				
	MATERIAL				
	For Under layer of 31 mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1350.00	283.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1350.00	94.50
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	106.13	29.72
982	Coarse sand	cum	0.14	1350.00	189.00
2203	Carriage of Coarse sand	cum	0.14	106.13	14.86
367	Portland Cement	tonne	0.1005	4940.00	496.47
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement for top layer 9mm thick	tonne	0.1205	94.34	11.37
788	Marble chips large size above 4 mm White & black	quintal	1.40	250.00	350.00
2268	Carriage of Marble dust and marble chips	cum	0.082	106.13	8.70
368	White Cement	tonne	0.0578	11200.00	647.36
2209	Carriage of Cement	tonne	0.0578	94.34	5.45
784	Marble dust/ powder	cum	0.012	1130.00	13.56
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	161.46	2.00	322.92
	Total				5045.27 W
	Add 1 % Water charges on "W"				50.45
	TOTAL				5095.72 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				715.95
	TOTAL				5811.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				871.75
	Total				6683.42 Z
	Add Cess @ 1% on "Z"				66.83
	Cost of 10 sqm				6750.25
	Cost of 1 sqm				675.03
	Say				675.05
11.10.5	Light shade pigment with ordinary cement				
	Details of cost for 10 sqm				
11.10.1	Rate as per item no 11.10.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	658.80	6587.96 A
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	60.00	170.40
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	Total				6559.56 W
	Add 1 % Water charges on "W-A"		-28.40		-0.28
	TOTAL				6559.27 X
	Add GST (multiplying factor 0.1405) on "X-A"		-28.68		-4.03
	TOTAL				6555.24 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		-32.71		-4.91
	Total				6550.34 Z
	Add Cess @ 1% on "Z-A"		-37.62		-0.38
	Cost of 10 sqm				6549.96
	Cost of 1 sqm				655.00
	Say				655.00
11.10.6	Ordinary cement without any pigment				
	Details of cost for 10 sqm				
	MATERIAL				
	For under layer 31 mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1350.00	283.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1350.00	94.50
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.28	106.13	29.72
982	Coarse sand	cum	0.14	1350.00	189.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of Coarse sand	cum	0.14	106.13	14.86
367	Portland Cement	tonne	0.1005	4940.00	496.47
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement for top layer 9mm thick	tonne	0.1205	94.34	11.37
788	Marble chips large size above 4 mm White & black	quintal	1.40	250.00	350.00
2268	Carriage of Marble dust and marble chips	cum	0.082	106.13	8.70
367	Portland Cement	tonne	0.0578	4940.00	285.53
2209	Carriage of Cement	tonne	0.0578	94.34	5.45
784	Marble dust/ powder	cum	0.012	1130.00	13.56
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	2.00	269.10
	Total				4629.62 W
	Add 1 % Water charges on "W"				46.30
	TOTAL				4675.92 X
	Add GST (multiplying factor 0.1405) on "X"				656.97
	TOTAL				5332.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				799.93
	Total				6132.81 Z
	Add Cess @ 1% on "Z"				61.33
	Cost of 10 sqm				6194.14
	Cost of 1 sqm				619.41
	Say				619.40
11.11	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement slurry etc. complete :				
11.11.1	Dark shade pigment with ordinary cement				
	Details of cost for 10 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For under layer 28 mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1350.00	256.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1350.00	81.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.25	106.13	26.53
982	Coarse sand	cum	0.125	1350.00	168.75
2203	Carriage of Coarse sand	cum	0.125	106.13	13.27
367	Portland Cement	tonne	0.0897	4940.00	443.12
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.1097	94.34	10.35
	For top layer 12mm thick				
788	Marble chips large size above 4 mm White & black	quintal	1.734	250.00	433.50
2268	Carriage of Marble dust and marble chips	cum	0.102	106.13	10.83
367	Portland Cement	tonne	0.081	4940.00	400.14
2209	Carriage of Cement	tonne	0.081	94.34	7.64
784	Marble dust/ powder	cum	0.017	1130.00	19.21
874	Black colour dark shade pigment	kilogram	5.67	70.00	396.90
	@ 3.5kg/50kg of cement = 81x3.5/50=5.67kg				
9977	Carriage of pigment and marble powder etc.	L.S.	6.24	2.00	12.48
	LABOUR				0.00
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
					0.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	156.13	2.00	312.26
	TOTAL				5170.33 W
	Add 1 % Water charges on "W"				51.70
	TOTAL				5222.04 X
	Add GST (multiplying factor 0.1405) on "X"				733.70
	TOTAL				5955.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				893.36
	Total				6849.09 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				68.49
	Cost of 10 sqm				6917.58
	Cost of 1 sqm				691.76
	Say				691.75
11.11.2	Light shade pigment with white cement				
	Details of cost for 10 sqm				
11.11.1	Rate as per Item Number 11.11.1 of	sqm	10.00	691.75	6917.48 A
	SH: Flooring				
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
875	Red, chocolate, orange, buff or yellow	kilogram	5.67	60.00	340.20
	(red oxide of iron) light shade pigment Deduct				
874	Black colour dark shade pigment	kilogram	-5.67	70.00	-396.90
	Add Difference of cost due to using white cement instead of grey cement Add for				
368	White Cement Deduct for	tonne	0.081	11200.00	907.20
367	Portland Cement	tonne	-0.081	4940.00	-400.14
	TOTAL				7367.84 W
	Add 1 % Water charges on "W-A"	450.36			4.50
	TOTAL				7372.35 X
	Add GST (multiplying factor 0.1405) on "X-A"	454.86			63.91
	TOTAL				7436.25 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	518.77			77.82
	Total				7514.07 Z
	Add Cess @ 1% on "Z-A"	596.59			5.97
	Cost of 10 sqm				7520.04
	Cost of 1 sqm				752.00
	Say				752.00
11.11.3	Medium shade pigment with 50% white cement and 50% ordinary cement				
	Details of cost for 10 sqm				
11.11.1	Rate as per Item Number 11.11.1 of	sqm	10.00	691.75	6917.48 A
	SH: Flooring				
	Add difference of cost due to using Medium shade pigment instead of dark shade pigment				
	Add for				
876	Green or blue medium shade pigment Deduct	kilogram	5.67	56.00	317.52
	for				
874	Black colour dark shade pigment	kilogram	-5.67	70.00	-396.90
	Add Difference of cost due to using white cement instead of grey cement Add for				
368	White Cement Deduct for	tonne	0.0405	11200.00	453.60
367	Portland Cement	tonne	-0.0405	4940.00	-200.07
	TOTAL				7091.63 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 1 % Water charges on "W-A"	174.15			1.74	
	TOTAL				7093.37	X
	Add GST (multiplying factor 0.1405) on "X-A"	175.89			24.71	
	TOTAL				7118.09	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	200.60			30.09	
	Total				7148.18	Z
	Add Cess @ 1% on "Z-A"	230.69			2.31	
	Cost of 10 sqm				7150.48	
	Cost of 1 sqm				715.05	
	Say				715.05	
11.11.4	White cement without any pigment					
	Details of cost for 10 sqm					
	MATERIAL					
	For under layer 28 mm thick					
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1350.00	256.50	
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1350.00	81.00	
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.25	106.13	26.53	
982	Coarse sand	cum	0.125	1350.00	168.75	
2203	Carriage of Coarse sand	cum	0.125	106.13	13.27	
367	Portland Cement	tonne	0.0897	4940.00	443.12	
367	Portland Cement	tonne	0.02	4940.00	98.80	
2209	Carriage of Cement	tonne	0.1097	94.34	10.35	
	For Top layer 12 mm thick					
788	Marble chips large size above 4 mm White & black	quintal	1.916	250.00	479.00	
2268	Carriage of Marble dust and marble chips	cum	0.1128	106.13	11.97	
368	White Cement	tonne	0.081	11200.00	907.20	
2209	Carriage of Cement	tonne	0.081	94.34	7.64	
784	Marble dust/ powder	cum	0.017	1130.00	19.21	
	LABOUR					
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36	
0017	Beldar	day	1.99	320.83	638.45	
0011	Bhisti	day	1.04	320.83	333.66	
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83	
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76	
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00	
013	Machine for rubbing of floors	day	1.60	300.00	480.00	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	134.55	2.00	269.10
	TOTAL				5271.50 W
	Add 1 % Water charges on "W"				52.71
	TOTAL				5324.21 X
	Add GST (multiplying factor 0.1405) on "X"				748.05
	TOTAL				6072.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				910.84
	Total				6983.11 Z
	Add Cess @ 1% on "Z"				69.83
	Cost of 10 sqm				7052.94
	Cost of 1 sqm				705.29
	Say				705.30
11.11.5	Light shade pigment with ordinary cement				
	Details of cost for 10 sqm				
11.11.1	Rate as per Item Number 11.11.1 of SH:Flooring	sqm	10.00	691.75	6917.48 A
	Add difference of cost due to using Light shade pigment instead of dark shade pigment Add for				
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	5.67	60.00	340.20
874	Black colour dark shade pigment	kilogram	-5.67	70.00	-396.90
	TOTAL				6860.78
	Add 1 % Water charges on "W-A"				-0.57
	TOTAL				6860.22 X
	Add GST (multiplying factor 0.1405) on "X-A"				-8.05
	TOTAL				6852.17 Y
	Add 15 % Contractor's profit and overheads on "Y-A"				-9.80
	Total				6842.37 Z
	Add Cess @ 1% on "Z-A"				-0.75
	Cost of 10 sqm				6841.62
	Cost of 1 sqm				684.16
	Say				684.15
11.11.6	Ordinary cement without any pigment				
	Details of cost for 10 sqm				
	MATERIAL				
	For under layer 28 mm thick				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1350.00	256.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1350.00	81.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.25	106.13	26.53
982	Coarse sand	cum	0.125	1350.00	168.75
2203	Carriage of Coarse sand	cum	0.125	106.13	13.27
367	Portland Cement	tonne	0.0897	4940.00	443.12
367	Portland Cement	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.1097	94.34	10.35
	For Top layer 12mm thick				
788	Marble chips large size above 4 mm White & black	quintal	1.916	250.00	479.00
2268	Carriage of Marble dust and marble chips	cum	0.1128	106.13	11.97
367	Portland Cement	tonne	0.081	4940.00	400.14
2209	Carriage of Cement	tonne	0.081	94.34	7.64
784	Marble dust/ powder	cum	0.017	1130.00	19.21
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.79	374.50	670.36
0017	Beldar	day	1.99	320.83	638.45
0011	Bhisti	day	1.04	320.83	333.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0027	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	392.00	11.76
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.03	800.00	24.00
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	2.00	269.10
	TOTAL				4764.44 W
	Add 1 % Water charges on "W"				47.64
	TOTAL				4812.08 X
	Add GST (multiplying factor 0.1405) on "X"				676.10
	TOTAL				5488.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				823.23
	Total				6311.41 Z
	Add Cess @ 1% on "Z"				63.11
	Cost of 10 sqm				6374.52
	Cost of 1 sqm				637.45
	Say				637.45

11.12 Marble chips skirting up to 30 cm height, rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :				
11.12.1.1	Dark shade pigment with ordinary cement				
	Details of cost for 10 sqm				
	MATERIAL				
	For under layer of 12mm thick Cement mortar 1:3 (1 cement : 3 coarse sand) = 0.144 + Extra for rounding = 0.03 = 0.174				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	4469.50	777.69
	Top layer 6mm thick				
785	Marble chips upto 4mm and downsize White & black	quintal	0.872	189.00	164.81
2268	Carriage of Marble dust and marble chips	cum	0.051	106.13	5.41
367	Portland Cement	tonne	0.0405	4940.00	200.07
2209	Carriage of Cement	tonne	0.0405	94.34	3.82
784	Marble dust/ powder	cum	0.007	1130.00	7.91
874	Black colour dark shade pigment	kilogram	2.84	70.00	198.80
	@ 3.5kg/50kg of cement =40.5x3.5/50=2.84kg				
9977	Carriage of pigment & marble powder etc.	L.S.	3.64	2.00	7.28
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.00	374.50	1123.50
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	7.00	320.83	2245.81
9999	Sundries	L.S.	201.89	2.00	403.78
	TOTAL				6422.20 W
	Add 1 % Water charges on "W"				64.22
	TOTAL				6486.43 X
	Add GST (multiplying factor 0.1405) on "X"				911.34
	TOTAL				7397.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				1109.67
	Total				8507.44 Z
	Add Cess @ 1% on "Z"				85.07
	Cost of 10 sqm				8592.51
	Cost of 1 sqm				859.25
	Say				859.25
11.12.1.2	Light shade pigment with white cement				
	Details of cost for 10 sqm				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	859.25	8592.51 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment Add for				
875	Red, chocolate, orange, buff or yellow	kilogram	2.84	60.00	170.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(red oxide of iron) light shade pigment Deduct for				
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	Add Difference of cost due to using white cement instead of grey cement				
	Add for				
368	White Cement Deduct for	tonne	0.0405	11200.00	453.60
367	Portland Cement	tonne	-0.0405	4940.00	-200.07
	TOTAL				8817.64 W
	Add 1 % Water charges on "W-A"	225.13			2.25
	TOTAL				8819.89 X
	Add GST (multiplying factor 0.1405) on "X-A"	227.38			31.95
	TOTAL				8851.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	259.33			38.90
	Total				8890.74 Z
	Add Cess @ 1% on "Z-A"	298.23			2.98
	Cost of 10 sqm				8893.72
	Cost of 1 sqm				889.37
	Say				889.35
11.12.1.3 Medium shade pigment with 50% white cement and 50% ordinary cement					
	Details of cost for 10 sqm				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH:Flooring	sqm	10.00	859.25	8592.50 A
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				
	Add for				
876	Green or blue medium shade pigment Deduct for	kilogram	2.84	56.00	159.04
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	Add Difference of cost due to using white cement instead of grey cement Add for				
368	White Cement Deduct for	tonne	0.0203	11200.00	227.36
367	Portland Cement	tonne	-0.0203	4940.00	-100.28
	TOTAL				8679.82 W
	Add 1 % Water charges on "W-A"	87.32			0.87
	TOTAL				8680.69 X
	Add GST (multiplying factor 0.1405) on "X-A"	88.19			12.39
	TOTAL				8693.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	100.58			15.09
	Total				8708.17 Z
	Add Cess @ 1% on "Z-A"	115.67			1.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 sqm				8709.33
	Cost of 1 sqm				870.93
	Say				870.95
11.12.1.4 White cement without any pigment					
	Details of cost for 10 sqm				
	MATERIAL				
	For under layer of 12mm thick Cement mortar 1:3 (1 cement : 3 coarse sand) = 0.144+				
	Extra for rounding = 0.03				
	Total =0.174				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	4469.50	777.69
	Top layer 6mm thick				
785	Marble chips upto 4mm and downsize White & black	quintal	0.958	189.00	181.06
2268	Carriage of Marble dust and marble chips	cum	0.056	106.13	5.94
368	White Cement	tonne	0.0405	11200.00	453.60
2209	Carriage of Cement	tonne	0.0405	94.34	3.82
784	Marble dust/ powder	cum	0.007	1130.00	7.91
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.00	374.50	1123.50
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	7.00	320.83	2245.81
9999	Sundries	L.S.	201.89	2.00	403.78
	TOTAL				6486.44 W
	Add 1 % Water charges on "W"				64.86
	TOTAL				6551.30 X
	Add GST (multiplying factor 0.1405) on "X"				920.46
	TOTAL				7471.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				1120.76
	Total				8592.53 Z
	Add Cess @ 1% on "Z"				85.93
	Cost of 10 sqm				8678.45
	Cost of 1 sqm				867.85
	Say				867.85

11.12.1.5 Light shade pigment with ordinary cement

	Details of cost for 10 sqm				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	859.25	8592.51 A
	Add difference of cost due to using Light shade pigment instead of dark shade pigment				
	Add for				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	60.00	170.40
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
	TOTAL				8564.11 W
	Add 1 % Water charges on "W-A"		-28.40		-0.28
	TOTAL				8563.83 X
	Add GST (multiplying factor 0.1405) on "X-A"		-28.68		-4.03
	TOTAL				8559.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		-32.71		-4.91
	Total				8554.89 Z
	Add Cess @ 1% on "Z-A"		-37.62		-0.38
	Cost of 10 sqm				8554.51
	Cost of 1 sqm				855.45
	Say				855.45

11.12.1.6 Ordinary cement without any pigment

Details of cost for 10 sqm					
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	859.25	8592.51 A
	Less cost of dark shade pigment Deduct for				
874	Black colour dark shade pigment	kilogram	-2.84	70.00	-198.80
9999	Deduct for Carriage of pigment	L.S.	-3.64	2.00	-7.28
2268	Marble dust and/or marble chips	cum	0.007	106.13	0.74
	TOTAL				8387.17 W
	Add 1 % Water charges on "W-A"		-205.34		-2.05
	TOTAL				8385.12 X
	Add GST (multiplying factor 0.1405) on "X-A"		-207.39		-29.14
	TOTAL				8355.98 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		-236.53		-35.48
	Total				8320.50 Z
	Add Cess @ 1% on "Z-A"		-272.01		-2.72
	Cost of 10 sqm				8317.78
	Cost of 1 sqm				831.78
	Say				831.80

11.13 Providing and fixing glass strips in joints of terrazo/ cement concrete floors.

11.13.1 40 mm wide and 4 mm thick

Details of cost for 10 metre length

MATERIAL

Glass strips = 10m

Add 10% for wastage = 1m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 11m				
1149	Glass strip 4 mm thick 40 mm deep	metre	11.00	20.00	220.00
9977	Carriage of glass	L.S.	2.73	2.00	5.46
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				426.33 W
	Add 1 % Water charges on "W"				4.26
	TOTAL				430.60 X
	Add GST (multiplying factor 0.1405) on "X"				60.50
	TOTAL				491.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.66
	Total				564.76 Z
	Add Cess @ 1% on "Z"				5.65
	Cost of 10 sqm				570.41
	Cost of 1 sqm				57.04
	Say				57.05
11.14	Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.				
	Details of cost for 10 sqm.				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
0018	Coolie	day	0.30	320.83	96.25
	TOTAL				304.85 W
	Add 1 % Water charges on "W"				3.05
	TOTAL				307.90 X
	Add GST (multiplying factor 0.1405) on "X"				43.26
	TOTAL				351.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.67
	Total				403.83 Z
	Add Cess @ 1% on "Z"				4.04
	Cost of 10 sqm				407.87
	Cost of 1 sqm				40.79
	Say				40.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete :				
11.15.1	18 mm thick crazy marble stone white, black or as specified				
	Details of cost for 10 sqm.				
	Under layer 25mm thick of cement Concrete				
	1:2:4 -10x0.025=0.25 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring Cement slurry for subgrade and under large cement	cum	0.25	6281.30	1570.33 A
367	Portland Cement	tonne	0.04	4940.00	197.60
2209	Carriage of Cement	tonne	0.04	94.34	3.77
	Labour for applying cement slurry				
	LABOUR				
0017	Beldar	day	0.50	320.83	160.42
	Top layer with marble pieces and gap filling with marble powder mixture				
	Marble pieces for crazy flooring				
	(Assume 70% of marble stone are and 30% of joint filler/mixture				
	7sqmx0.02m = 0.14 cum				
	0.872x0.14/0.051 = 2.40q				
2710	White marble makranasecondquality plain veined stone pieces for crazy flooring	quintal	2.40	150.00	360.00
368	White Cement	tonne	0.0405	11200.00	453.60
784	Marble dust/ powder	cum	0.007	1130.00	7.91
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment @ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg	kilogram	2.84	60.00	170.40
785	Marble chips upto 4mm and downsize White & black	quintal	0.872	189.00	164.81
2268	Carriage of Marble dust and marble chips	cum	0.051	106.13	5.41
2209	Carriage of Cement	tonne	0.0405	94.34	3.82
9977	Carriage of pigment & marble powder	L.S.	3.64	2.00	7.28
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.24	94.34	22.64
	Labour for finishing, polishing and fixing-				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
9999	Sundries including carborandum etc.	L.S.	134.55	2.00	269.10
0011	Bhisti	day	0.54	320.83	173.25
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
	TOTAL				7587.34 W
	Add 1 % Water charges on "W-A"	6017.02			60.17
	TOTAL				7647.51 X
	Add GST (multiplying factor 0.1405) on "X-A"	6077.19			853.85
	TOTAL				8501.36 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6931.03			1039.66
	Total				9541.01 Z
	Add Cess @ 1% on "Z-A"	7970.69			79.71
	Cost of 10 sqm				9620.72
	Cost of 1 sqm				962.07
	Say				962.05
11.16	Precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand) :				
11.16.1	Light shade pigment using white cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1201	Precast terrazo tiles 22 mm thick	sqm	11.00	285.00	3135.00
	(light shade) including 10% wastage				
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.044	4940.00	217.36
	Grey cement for slurry @ 4.4kg/sqm.				
368	White Cement for grouting	tonne	0.044	11200.00	492.80
2209	Carriage of Cement	tonne	0.088	94.34	8.30
875	Red, chocolate, orange, buff or yellow	kilogram	3.08	60.00	184.80
	(red oxide of iron) light shade pigment				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
	TOTAL				7660.17 W
	Add 1 % Water charges on "W"				76.60
	TOTAL				7736.77 X
	Add GST (multiplying factor 0.1405) on "X"				1087.02
	TOTAL				8823.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				1323.57
	Total				10147.36 Z
	Add Cess @ 1% on "Z"				101.47
	Cost of 10 sqm				10248.83
	Cost of 1 sqm				1024.88
	Say				1024.90

11.16.2 Medium shade pigment using 50% white cement and 50% ordinary cement

Details of cost for 10 sqm.

MATERIAL

1202	Precast terrazo tiles 22 mm thick (medium shade) including 10% wastage	sqm	11.00	265.00	2915.00
9977	Carriage of tiles Cement mortar 1 : 4 (1 cement : 4 coarse sand)	L.S.	40.43	2.00	80.86
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement (i) for slurry @ 4.4kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg. Total =66kg or 0.066 tonne	cum	0.224	3815.05	854.57
367	Portland Cement 50% white cement for grouting	tonne	0.066	4940.00	326.04
368	White Cement	tonne	0.022	11200.00	246.40
2209	Carriage of Cement	tonne	0.088	94.34	8.30
876	Green or blue medium shade pigment	kilogram	3.08	56.00	172.48

LABOUR

0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				7290.13 W
	Add 1 % Water charges on "W"				72.90
	TOTAL				7363.03 X
	Add GST (multiplying factor 0.1405) on "X"				1034.51
	TOTAL				8397.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				1259.63
	Total				9657.17 Z
	Add Cess @ 1% on "Z"				96.57
	Cost of 10 sqm				9753.74
	Cost of 1 sqm				975.37
	Say				975.35
11.16.3	Dark shade pigment using ordinary cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	245.00	2695.00
	including 10% wastage				
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Ordinary cement for				
	(i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii)				
	Grouting = 44 kg.				
	Total = 88kg or 0.088 tonne				
367	Portland Cement	tonne	0.088	4940.00	434.72
2209	Carriage of Cement	tonne	0.088	94.34	8.30
874	Black colour dark shade pigment	kilogram	3.08	70.00	215.60
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
	TOTAL				6975.53 W
	Add 1 % Water charges on "W"				69.76
	TOTAL				7045.29 X
	Add GST (multiplying factor 0.1405) on "X"				989.86
	TOTAL				8035.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				1205.27
	Total				9240.42 Z
	Add Cess @ 1% on "Z"				92.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 sqm				9332.83
	Cost of 1 sqm				933.28
	Say				933.30
11.16.4	Ordinary cement without any pigment				
	Details of cost for 10 sqm.				
	MATERIAL				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	245.00	2695.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Ordinary cement for				
	(i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.				
	Total = 88kg or 0.088 tonne				
367	Portland Cement	tonne	0.088	4940.00	434.72
2209	Carriage of Cement	tonne	0.088	94.34	8.30
874	Black colour dark shade pigment	kilogram	3.08	70.00	215.60
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
874	Black colour dark shade pigment	kilogram	-5.92	70.00	-414.40
	TOTAL				6561.13 W
	Add 1 % Water charges on "W"				65.61
	TOTAL				6626.74 X
	Add GST (multiplying factor 0.1405) on "X"				931.06
	TOTAL				7557.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				1133.67
	Total				8691.47 Z
	Add Cess @ 1% on "Z"				86.91
	Cost of 10 sqm				8778.39
	Cost of 1 sqm				877.84
	Say				877.85

11.17 Extra if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.22	374.50	82.39
0018	Coolie	day	0.22	320.83	70.58
0037	Skilled Beldar (for floor rubbing etc.)	day	0.65	320.83	208.54
	TOTAL				361.51 W
	Add 1 % Water charges on "W"				3.62
	TOTAL				365.13 X
	Add GST (multiplying factor 0.1405) on "X"				51.30
	TOTAL				416.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.46
	Total				478.89 Z
	Add Cess @ 1% on "Z"				4.79
	Cost of 10 sqm				483.68
	Cost of 1 sqm				48.37
	Say				48.35
11.18	Precast terrazo tiles 22 mm thick with graded marble chips of sizes upto 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of :				
11.18.1	Light shade pigment using white cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1201	Precast terrazo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.00	285.00	3135.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
368	White Cement	tonne	0.066	11200.00	739.20
	For slurry				
	For buttering tiles bed sides =44 kg. + For grouting =22 kg. Total = 66 kg				
2209	Carriage of Cement	tonne	0.066	94.34	6.23
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment 66x3.5/50 = 4.62	kilogram	4.62	60.00	277.20
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.25	374.50	1217.13
0018	Coolie	day	3.25	320.83	1042.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar (for floor rubbing etc.)	day	7.60	320.83	2438.31
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	2.00	322.92
	TOTAL				9903.15 W
	Add 1 % Water charges on "W"				99.03
	TOTAL				10002.18 X
	Add GST (multiplying factor 0.1405) on "X"				1405.31
	TOTAL				11407.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				1711.12
	Total				13118.60 Z
	Add Cess @ 1% on "Z"				131.19
	Cost of 10 sqm				13249.79
	Cost of 1 sqm				1324.98
	Say				1325.00

11.18.2 Medium shades pigment using 50% white cement and 50% ordinary cement

Details of cost for 10 sqm.

MATERIAL

1202	Precast terrazzo tiles 22 mm thick (medium shade) including wastage & breakage	sqm	11.00	265.00	2915.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
368	White Cement	tonne	0.033	11200.00	369.60
367	Portland Cement	tonne	0.033	4940.00	163.02
2209	Carriage of Cement	tonne	0.066	94.34	6.23
876	Green or blue medium shade pigment	kilogram	4.62	56.00	258.72

LABOUR

0024	Mason (brick layer) 2nd class	day	3.25	374.50	1217.13
0018	Coolie	day	3.25	320.83	1042.70
0037	Skilled Beldar (for floor rubbing etc.)	day	7.60	320.83	2438.31
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	2.00	322.92
	TOTAL				9458.09 W
	Add 1 % Water charges on "W"				94.58
	TOTAL				9552.67 X
	Add GST (multiplying factor 0.1405) on "X"				1342.15
	TOTAL				10894.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				1634.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				12529.04 Z
	Add Cess @ 1% on "Z"				125.29
	Cost of 10 sqm				12654.33
	Cost of 1 sqm				1265.43
	Say				1265.45
11.18.3	Dark shade pigment using ordinary cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.00	245.00	2695.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
367	Grey cement for slurry				
	Portland Cement	tonne	0.066	4940.00	326.04
2209	Carriage of Cement	tonne	0.066	94.34	6.23
874	Black colour dark shade pigment	kilogram	4.62	70.00	323.40
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.25	374.50	1217.13
0018	Coolie	day	3.25	320.83	1042.70
0037	Skilled Beldar (for floor rubbing etc.)	day	7.60	320.83	2438.31
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	2.00	322.92
	TOTAL				9096.19 W
	Add 1 % Water charges on "W"				90.96
	TOTAL				9187.15 X
	Add GST (multiplying factor 0.1405) on "X"				1290.79
	TOTAL				10477.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				1571.69
	Total				12049.63 Z
	Add Cess @ 1% on "Z"				120.50
	Cost of 10 sqm				12170.13
	Cost of 1 sqm				1217.01
	Say				1217.00

11.18.4 Ordinary cement without any pigment

Details of cost for 10 sqm.

MATERIAL

1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.00	245.00	2695.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1:3 (1 cement : 3 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
	Grey cement for slurry				
367	Portland Cement	tonne	0.066	4940.00	326.04
2209	Carriage of Cement	tonne	0.066	94.34	6.23
874	Black colour dark shade pigment	kilogram	4.62	70.00	323.40
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.25	374.50	1217.13
0018	Coolie	day	3.25	320.83	1042.70
0037	Skilled Beldar (for floor rubbing etc.)	day	7.60	320.83	2438.31
9999	Sundries including carborandum stone and polishing powder etc. Less for dark shade pigment [4.62+2.84 (for tiles)]	L.S.	161.46	2.00	322.92
874	Black colour dark shade pigment	kilogram	-7.46	70.00	-522.20
	TOTAL				8573.99 W
	Add 1 % Water charges on "W"				85.74
	TOTAL				8659.72 X
	Add GST (multiplying factor 0.1405) on "X"				1216.69
	TOTAL				9876.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				1481.46
	Total				11357.88 Z
	Add Cess @ 1% on "Z"				113.58
	Cost of 10 sqm				11471.46
	Cost of 1 sqm				1147.15
	Say				1147.15
11.19	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :				
11.19.1	Light shade pigment using white cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1227	Chequered terrazzo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.00	275.00	3025.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Grey cement for slurry @ 4.4kg/sqm				
367	Portland Cement	tonne	0.044	4940.00	217.36
	White cement for grouting				
368	White Cement	tonne	0.044	11200.00	492.80
2209	Carriage of Cement	tonne	0.088	94.34	8.30
875	Red, chocolate, orange, buff or yellow	kilogram	3.08	60.00	184.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(red oxide of iron) light shade pigment				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
	TOTAL				7550.17 W
	Add 1 % Water charges on "W"				75.50
	TOTAL				7625.67 X
	Add GST (multiplying factor 0.1405) on "X"				1071.41
	TOTAL				8697.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				1304.56
	Total				10001.64 Z
	Add Cess @ 1% on "Z"				100.02
	Cost of 10 sqm				10101.66
	Cost of 1 sqm				1010.17
	Say				1010.15
11.19.2	Medium shade pigment using 50% white cement, 50% ordinary cement				
	Details of cost for 10 sqm.				
	MATERIAL				
1228	Chequered terrazo tiles 22 mm thick	sqm	11.00	300.00	3300.00
	(medium shade) including 10% wastage				
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Grey cement				
	(i) for slurry @ 4.4kg/sqm =44 kg.+ (ii) 50% for grouting = 22kg.				
	Total =66kg or 0.066 tonne				
367	Portland Cement	tonne	0.066	4940.00	326.04
	50% white cement for grouting				
368	White Cement	tonne	0.022	11200.00	246.40
2209	Carriage of Cement	tonne	0.088	94.34	8.30
876	Green or blue medium shade pigment Labour and sundries	kilogram	3.08	56.00	172.48
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
	TOTAL				7675.13 W
	Add 1 % Water charges on "W"				76.75
	TOTAL				7751.88 X
	Add GST (multiplying factor 0.1405) on "X"				1089.14
	TOTAL				8841.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				1326.15
	Total				10167.18 Z
	Add Cess @ 1% on "Z"				101.67
	Cost of 10 sqm				10268.85
	Cost of 1 sqm				1026.88
	Say				1026.90

11.19.3 Dark shade pigment using ordinary cement

Details of cost for 10 sqm.

MATERIAL

1229	Chequered terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	260.00	2860.00
9977	Carriage of tiles Cement mortar 1 : 4 (1 cement : 4 coarse sand)	L.S.	40.43	2.00	80.86
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.088	4940.00	434.72
2209	Carriage of Cement	tonne	0.088	94.34	8.30
874	Black colour dark shade pigment Labour & sundries	kilogram	3.08	70.00	215.60
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	2.00	323.96
	TOTAL				7140.53 W
	Add 1 % Water charges on "W"				71.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				7211.94 X
	Add GST (multiplying factor 0.1405) on "X"				1013.28
	TOTAL				8225.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				1233.78
	Total				9459.00 Z
	Add Cess @ 1% on "Z"				94.59
	Cost of 10 sqm				9553.59
	Cost of 1 sqm				955.36
	Say				955.35
11.19.4	Ordinary cement without any pigment				
	Details of cost for 10 sqm.				
	MATERIAL				
1229	Chequered terrazo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.00	260.00	2860.00
9977	Carriage of tiles Cement mortar 1 : 4 (1 cement : 4 coarse sand)	L.S.	40.43	2.00	80.86
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.088	4940.00	434.72
2209	Carriage of Cement	tonne	0.088	94.34	8.30
874	Black colour dark shade pigment Labour & sundries	kilogram	3.08	70.00	215.60
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc. Less for dark shade pigment [3.08+2.84(for tiles)]	L.S.	162.59	2.00	325.18
874	Black colour dark shade pigment	kilogram	-5.92	70.00	-414.40
	TOTAL				6727.35 W
	Add 1 % Water charges on "W"				67.27
	TOTAL				6794.63 X
	Add GST (multiplying factor 0.1405) on "X"				954.64
	TOTAL				7749.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				1162.39
	Total				8911.66 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				89.12
	Cost of 10 sqm				9000.78
	Cost of 1 sqm				900.08
	Say				900.10
11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
11.20.1	Light shade pigment using white cement				
	Details of cost for 10 sqm.				
	MATERIAL				
7070	Chequerred precast cement concrete tiles	sqm	11.00	400.00	4400.00
	22mm thick using marble chips of size 6mm -				
	Light shade using white cement including 10% wastage				
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3815.05	839.31
	Grey cement slurry @ 4.4kg @sqm				
367	Portland Cement	tonne	0.044	4940.00	217.36
	White cement for grouting				
368	White Cement	tonne	0.048	11200.00	537.60
2209	Carriage of Cement	tonne	0.092	94.34	8.68
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	60.00	184.80
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				7830.30 W
	Add 1 % Water charges on "W"				78.30
	TOTAL				7908.60 X
	Add GST (multiplying factor 0.1405) on "X"				1111.16
	TOTAL				9019.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				1352.96
	Total				10372.73 Z
	Add Cess @ 1% on "Z"				103.73
	Cost of 10 sqm				10476.45
	Cost of 1 sqm				1047.65
	Say				1047.65
11.20.2	Medium shade pigment using 50% white cement 50% Grey cement				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL				
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement, 50% ordinary cement including 10% wastage	sqm	11.00	335.00	3685.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg. + grey cement for grouting 2.4kg/sqm. = 24kg. Total = 68 kg	cum	0.22	3815.05	839.31
367	Portland Cement	tonne	0.068	4940.00	335.92
	White cement for grouting @ 2.4kg/sqm. = 24 kg				
368	White Cement	tonne	0.024	11200.00	268.80
2209	Carriage of Cement	tonne	0.092	94.34	8.68
876	Green or blue medium shade pigment	kilogram	3.08	56.00	172.48
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				6952.74 W
	Add 1 % Water charges on "W"				69.53
	TOTAL				7022.27 X
	Add GST (multiplying factor 0.1405) on "X"				986.63
	TOTAL				8008.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				1201.33
	Total				9210.23 Z
	Add Cess @ 1% on "Z"				92.10
	Cost of 10 sqm				9302.33
	Cost of 1 sqm				930.23
	Say				930.25

11.20.3 Dark shade pigment using ordinary cement

Details of cost for 10 sqm.

MATERIAL

7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	225.00	2475.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3815.05	839.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg.+ For grouting = 48 kg. Total=92 kg. say 0.092 tonne				
367	Portland Cement	tonne	0.092	4940.00	454.48
2209	Carriage of Cement	tonne	0.092	94.34	8.68
874	Black colour dark shade pigment	kilogram	3.08	70.00	215.60
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				5635.62 W
	Add 1 % Water charges on "W"				56.36
	TOTAL				5691.98 X
	Add GST (multiplying factor 0.1405) on "X"				799.72
	TOTAL				6491.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				973.75
	Total				7465.45 Z
	Add Cess @ 1% on "Z"				74.65
	Cost of 10 sqm				7540.11
	Cost of 1 sqm				754.01
	Say				754.00
11.20.4	Ordinary cement without any pigment				
	Details of cost for 10 sqm.				
	MATERIAL				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	225.00	2475.00
9977	Carriage of tiles	L.S.	40.43	2.00	80.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg + For grouting = 48 kg. Total = 92 kg. Say 0.092 tonne	cum	0.22	3815.05	839.31
367	Portland Cement	tonne	0.092	4940.00	454.48
2209	Carriage of Cement	tonne	0.092	94.34	8.68
874	Black colour dark shade pigment	kilogram	3.08	70.00	215.60
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	1.00	320.83	320.83
	Less for dark shade pigment [3.08+2.84 (for tiles)]				
874	Black colour dark shade pigment	kilogram	-5.92	70.00	-414.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5221.22 W
	Add 1 % Water charges on "W"				52.21
	TOTAL				5273.43 X
	Add GST (multiplying factor 0.1405) on "X"				740.92
	TOTAL				6014.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				902.15
	Total				6916.50 Z
	Add Cess @ 1% on "Z"				69.17
	Cost of 10 sqm				6985.67
	Cost of 1 sqm				698.57
	Say				698.55
11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
11.21.1.1	Acid and alkali resistant tile				
	Details of cost for 1 sqm.				
	MATERIAL				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11nos+				
	Add wastage and breakage @ 2.5% = 0.28 nos.				
	Total = 11.39 nos. Say 12 nos.				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	1.20	520.00	624.00
9977	Carriage	L.S.	6.24	2.00	12.48
	10mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3815.05	45.78
9999	Mortar for pointing in acid/alkali resistant cement Cement for slurry over bed @ 3.3kg per sqm	L.S.	40.43	2.00	80.86
367	Portland Cement	tonne	0.0033	4940.00	16.30
	Difference of cost for using acid proof cement instead of ordinary cement Add				
7024	Acid Proof cement Deduct	tonne	0.0079	7800.00	61.62
367	Portland Cement	tonne	-0.0079	4940.00	-39.03
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc.	L.S.	26.91	2.00	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1015.20
	Add 1 % Water charges on "W"				10.15
	TOTAL				1025.35 X
	Add GST (multiplying factor 0.1405) on "X"				144.06
	TOTAL				1169.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.41
	Total				1344.83 Z
	Add Cess @ 1% on "Z"				13.45
	Cost of 1 sqm				1358.28
	Say				1358.30
11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) 11.21.2.1 Acid and alkali resistant tile				
11.21.2.1	Acid and alkali resistant tile				
	Details of cost for 1 sqm.				
	MATERIAL				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11nos+				
	Add wastage and breakage @ 2.5% = 0.28 nos.				
	Total = 11.39 nos. Say 12 nos.				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	1.20	520.00	624.00
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	12mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Difference of cost for using acid proof cement instead of ordinary cement Add	cum	0.014	3815.05	53.41
7024	Acid Proof cement Deduct	tonne	0.0086	7800.00	67.08
367	Portland Cement	tonne	-0.0086	4940.00	-42.48
9999	Mortar for pointing in acid proof cement	L.S.	40.43	2.00	80.86
	Acid proof cementfor slurry over plaster 3.3kg/sq				
7024	Acid Proof cement	tonne	0.0033	7800.00	25.74
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of cement etc.	L.S.	26.91	2.00	53.82
	TOTAL				1074.11 W
	Add 1 % Water charges on "W"				10.74
	TOTAL				1084.86 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				152.42
	TOTAL				1237.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				185.59
	Total				1422.87 Z
	Add Cess @ 1% on "Z"				14.23
	Cost of 1 sqm				1437.10
	Say				1437.10
11.22	Tile work in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.				
11.22.1	Marble tiles (polished) Raj Nagar				
11.22.1.1	8 mm thick				
	Details of cost for 1 sqm.				
	MATERIAL				
2751	8 mm thick marble tiles (polished) Raj Nagar including wastage	sqm	1.061	400.00	424.40
9977	Carriage of tiles	L.S.	3.90	2.00	7.80
	12mm thick Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement Cement for slurry @ 3.3kg/sqm	L.S.	25.35	2.00	50.70
367	Portland Cement	tonne	0.0033	4940.00	16.30
9999	Pigment	L.S.	2.08	2.00	4.16
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of cement etc.	L.S.	16.9	2.00	33.80
	TOTAL				798.94 W
	Add 1 % Water charges on "W"				7.99
	TOTAL				806.93 X
	Add GST (multiplying factor 0.1405) on "X"				113.37
	TOTAL				920.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				138.05
	Total				1058.35 Z
	Add Cess @ 1% on "Z"				10.58
	Cost of 1 sqm				1068.94
	Say				1068.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :				
11.23.1	Makrana white second quality				
	Details of cost for 10 sqm.				
	MATERIAL				
	20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm.				
6001	White marble slab Makrana second quality plain veined 18 mm thick Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	11.50	1430.00	16445.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
367	Cement for slurry @4.4kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR				
	(for finishing, polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				21886.50 W
	Add 1 % Water charges on "W"				218.87
	TOTAL				22105.37 X
	Add GST (multiplying factor 0.1405) on "X"				3105.80
	TOTAL				25211.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				3781.68
	Total				28992.85 Z
	Add Cess @ 1% on "Z"				289.93
	Cost of 10 sqm.				29282.77
	Cost of 1 sqm.				2928.28
	Say				2928.30
11.23.2	Raj Nagar plain				
	Details of cost for 10 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm.				
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	11.50	600.00	6900.00
3.9	Rate as per Item Number 3.9 of SH: Mortars Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg Portland Cement	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR (for finishing, polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				12341.50 W
	Add 1 % Water charges on "W"				123.42
	TOTAL				12464.92 X
	Add GST (multiplying factor 0.1405) on "X"				1751.32
	TOTAL				14216.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				2132.44
	Total				16348.67 Z
	Add Cess @ 1% on "Z"				163.49
	Cost of 10 sqm.				16512.16
	Cost of 1 sqm.				1651.22
	Say				1651.20

11.23.3 Agaria White

Details of cost for 10 sqm.

MATERIAL

20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm.
Total = 11.50sqm.

7850	Agaria White marble slab plain 18mm thick Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	11.50	1100.00	12650.00
3.9	Rate as per Item Number 3.9 of	cum	0.224	3815.05	854.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	SH: Mortars				
	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg				
367	Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR				
	(for finishing, polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				18091.50 W
	Add 1 % Water charges on "W"				180.92
	TOTAL				18272.42 X
	Add GST (multiplying factor 0.1405) on "X"				2567.27
	TOTAL				20839.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				3125.95
	Total				23965.64 Z
	Add Cess @ 1% on "Z"				239.66
	Cost of 10 sqm.				24205.30
	Cost of 1 sqm.				2420.53
	Say				2420.55
11.23.4	Black Zebra				
	Details of cost for 10 sqm.				
	MATERIAL				
	20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm.				
6019	Black Zebra marble slab plain 18mm thick Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	11.50	900.00	10350.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg				
367	Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR				
	(for finishing, polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				15791.50 W
	Add 1 % Water charges on "W"				157.92
	TOTAL				15949.42 X
	Add GST (multiplying factor 0.1405) on "X"				2240.89
	TOTAL				18190.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				2728.55
	Total				20918.86 Z
	Add Cess @ 1% on "Z"				209.19
	Cost of 10 sqm.				21128.04
	Cost of 1 sqm.				2112.80
	Say				2112.80

11.23.5 Udaipur green marble

Details of cost for 10 sqm.

MATERIAL

20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm.
Total = 11.50sqm.

6010	Udaypur green marble slab plain 18mm thick	sqm	11.500	620.00	7130.00
	Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 ka+ (ii) for jointing = 6 ka. Total = 50 ka				
367	Portland Cement	tonne	0.05	5700	285.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82

LABOUR

(for finishing, polishing and fixing)

0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				12609.50 W
	Add 1 % Water charges on "W"				126.10
	TOTAL				12735.60 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				1789.35
	TOTAL				14524.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				2178.74
	Total				16703.69 Z
	Add Cess @ 1% on "Z"				167.04
	Cost of 10 sqm.				16870.73
	Cost of 1 sqm.				1687.07
	Say				1687.05
11.23.6	Pink plain marble				
	Details of cost for 10 sqm.				
	MATERIAL				
	20mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm.				
6007	Pink marble slab plain 18mm thick Base Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	11.50	645.00	7417.50
3.9	Rate as per Item Number 3.9 of SH: Mortars Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.05	4940.00	247.00
9977	Carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR				
	(for finishing, polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9988	Sundries and carriage of cement etc.	L.S.	134.55	2.00	269.10
	TOTAL				12859.00 W
	Add 1 % Water charges on "W"				128.59
	TOTAL				12987.59 X
	Add GST (multiplying factor 0.1405) on "X"				1824.76
	TOTAL				14812.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				2221.85
	Total				17034.20 Z
	Add Cess @ 1% on "Z"				170.34
	Cost of 10 sqm.				17204.54
	Cost of 1 sqm.				1720.45
	Say				1720.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.24	Extra for pre finished nosing to treads of steps of marble stone.				
	Details of cost for 10m				
	LABOUR				
0026	Mason (for ornamental stone work) 1st class	day	2.00	476.00	952.00
0017	Beldar	day	1.50	320.83	481.25
0037	Skilled Beldar (for floor rubbing etc.)	day	2.50	320.83	802.08
9999	Sundries	L.S.	53.82	2.00	107.64
	TOTAL				2342.96 W
	Add 1 % Water charges on "W"				23.43
	TOTAL				2366.39 X
	Add GST (multiplying factor 0.1405) on "X"				332.48
	TOTAL				2698.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				404.83
	Total				3103.70 Z
	Add Cess @ 1% on "Z"				31.04
	Cost of 10 sqm.				3134.73
	Cost of 1 sqm.				313.47
	Say				313.45
11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.				
	Details of cost for 10sqm.				
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.95	476.00	928.20
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	0.75	320.83	240.62
0037	Skilled Beldar (for floor rubbing etc.)	day	3.18	320.83	1020.24
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				2692.04 W
	Add 1 % Water charges on "W"				26.92
	TOTAL				2718.96 X
	Add GST (multiplying factor 0.1405) on "X"				382.01
	TOTAL				3100.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				465.15
	Total				3566.13 Z
	Add Cess @ 1% on "Z"				35.66
	Cost of 10 sqm.				3601.79
	Cost of 1 sqm.				360.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				360.20
11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
11.26.1	25 mm thick				
	Details of cost for 10sqm.				
	MATERIAL				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.50	280.00	3220.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.34	63.21
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	Cement for slurry-(i) for bedding = 44kg+ (ii) for joints = 20 kg.Total = 64 kg. or 0.064 tonne				
367	Portland Cement	tonne	0.064	4940.00	316.16
2209	Carriage of Cement	tonne	0.064	94.34	6.04
874	Black colour dark shade pigment	kilogram	4.50	70.00	315.00
	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete				
0024	Mason (brick layer) 2nd class	day	1.20	374.50	449.40
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9999	Sundries	L.S.	208.13	2.00	416.26
	TOTAL				9086.44 W
	Add 1 % Water charges on "W"				90.86
	TOTAL				9177.31 X
	Add GST (multiplying factor 0.1405) on "X"				1289.41
	TOTAL				10466.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				1570.01
	Total				12036.73 Z
	Add Cess @ 1% on "Z"				120.37
	Cost of 10 sqm.				12157.10
	Cost of 1 sqm.				1215.71
	Say				1215.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.				
	Details of cost for 10sqm.				
	MATERIAL				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.50	280.00	3220.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.34	63.21
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
367	Portland Cement for slurry	tonne	0.064	4940.00	316.16
2209	Carriage of Cement	tonne	0.064	94.34	6.04
874	Black colour dark shade pigment	kilogram	4.50	70.00	315.00
	LABOUR				
0024	Mason (brick layer) 2nd class	day	3.00	374.50	1123.50
0017	Beldar	day	3.00	320.83	962.49
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	7.00	320.83	2245.81
9999	Sundries	L.S.	174.98	2.00	349.96
	TOTAL				9566.60 W
	Add 1 % Water charges on "W"				95.67
	TOTAL				9662.27 X
	Add GST (multiplying factor 0.1405) on "X"				1357.55
	TOTAL				11019.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				1652.97
	Total				12672.79 Z
	Add Cess @ 1% on "Z"				126.73
	Cost of 10 sqm.				12799.52
	Cost of 1 sqm.				1279.95
	Say				1279.95
11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.				
11.28.1	Red sand stone				
	Details of cost for 10sqm.				
	MATERIAL				
	Finished work = 10 sqm				
	Add for wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement mortar 1 : 5 (1 cement : 5 coarse sand) (i) for beading = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3462.65	865.66
	LABOUR				
0023	Mason (brick layer) 1st class	day	3.10	476.00	1475.60
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	0.55	320.83	176.46
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				5246.96 W
	Add 1 % Water charges on "W"				52.47
	TOTAL				5299.43 X
	Add GST (multiplying factor 0.1405) on "X"				744.57
	TOTAL				6044.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				906.60
	Total				6950.60 Z
	Add Cess @ 1% on "Z"				69.51
	Cost of 10 sqm.				7020.10
	Cost of 1 sqm.				702.01
	Say				702.00

11.28.2 White sand stone

Details of cost for 10sqm.

MATERIAL

Finished work = 10 sqm

Add for wastage @ 10% = 1 sqm

Total = 11 sqm

1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12

Cement mortar 1 : 5 (1 cement : 5 coarse sand)

(i) for beading = 0.224 cum+ (ii) for joining =
0.026 cum.
Total=0.250cum.

3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3462.65	865.66
	LABOUR				
0023	Mason (brick layer) 1st class	day	3.10	476.00	1475.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	0.55	320.83	176.46
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				5246.96 W
	Add 1 % Water charges on "W"				52.47
	TOTAL				5299.43 X
	Add GST (multiplying factor 0.1405) on "X"				744.57
	TOTAL				6044.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				906.60
	Total				6950.60 Z
	Add Cess @ 1% on "Z"				69.51
	Cost of 10 sqm.				7020.10
	Cost of 1 sqm.				702.01
	Say				702.00
11.29	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.				
11.29.1	Red sand stone				
	Details of cost for 10sqm.				
	MATERIAL				
	Finished work = 10 sqm				
	Add for wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12
	Cement mortar 1 : 5 (1 cement : 5 coarse sand)				
	(i) for beading = 0.224 cum+ (ii) for joining = 0.026 cum.				
	Total=0.250cum.				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3462.65	865.66
	Cement mortar 1:2 (1 Cement : 2 stone dust for pointing)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4913.10	113.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	3.90	476.00	1856.40
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	1.40	320.83	449.16
0011	Bhisti	day	0.55	320.83	176.46
9999	Sundries	L.S.	26.91	2.00	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6135.54 W
	Add 1 % Water charges on "W"				61.36
	TOTAL				6196.89 X
	Add GST (multiplying factor 0.1405) on "X"				870.66
	TOTAL				7067.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				1060.13
	Total				8127.69 Z
	Add Cess @ 1% on "Z"				81.28
	Cost of 10 sqm.				8208.97
	Cost of 1 sqm.				820.90
	Say				820.90
11.29.2	White sand stone				
	Details of cost for 10sqm.				
	MATERIAL				
	Finished work = 10 sqm				
	Add for wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12
	Cement mortar 1 : 5 (1 cement : 5 coarse sand)				
	(i) for beading = 0.224 cum+ (ii) for joining = 0.026 cum.				
	Total=0.250cum.				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3462.65	865.66
	Cement mortar 1:2 (1 Cement : 2 stone dust for pointing)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4913.10	113.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	3.90	476.00	1856.40
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	1.40	320.83	449.16
0011	Bhisti	day	0.55	320.83	176.46
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				6135.54 W
	Add 1 % Water charges on "W"				61.36
	TOTAL				6196.89 X
	Add GST (multiplying factor 0.1405) on "X"				870.66
	TOTAL				7067.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				1060.13
	Total				8127.69 Z
	Add Cess @ 1% on "Z"				81.28
	Cost of 10 sqm.				8208.97

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				820.90
	Say				820.90
11.30	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.				
11.30.1	Red sand stone				
	Details of cost for 10sqm.				
	MATERIAL				
	Finished work = 10 sqm				
	Add for wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1164	Red sand stone slab 40 mmthick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12
	Cement mortar 1 : 5 (1 cement : 5 coarse sand)				
	(i) for beading = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.				
3.10	Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2 (1 Cement : 2 stone dust for pointing)	cum	0.25	3462.65	865.66
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4913.10	113.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	3.90	476.00	1856.40
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	1.40	320.83	449.16
0011	Bhisti	day	0.55	320.83	176.46
9999	Sundries	L.S.	26.91	2.00	53.82
	Labour for rubbing of stone				
0037	Skilled Beldar (for floor rubbing etc.)	day	0.618	320.83	198.27
013	Machine for rubbing of floors	day	0.988	300.00	296.40
	TOTAL				6630.21 W
	Add 1 % Water charges on "W"				66.30
	TOTAL				6696.51 X
	Add GST (multiplying factor 0.1405) on "X"				940.86
	TOTAL				7637.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				1145.61
	Total				8782.98 Z
	Add Cess @ 1% on "Z"				87.83
	Cost of 10 sqm.				8870.81
	Cost of 1 sqm.				887.08
	Say				887.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.30.2	White sand stone Details of cost for 10sqm. MATERIAL Finished work = 10 sqm Add for wastage @ 10% = 1 sqm Total = 11 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	200.00	2200.00
9977	Carriage	L.S.	34.06	2.00	68.12
	Cement mortar 1 : 5 (1 cement : 5 coarse sand) (i) for beading = 0.224 cum+ (ii) for joining = 0.026 cum. Total=0.250cum.				
3.10	Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2 (1 Cement : 2 stone dust for pointing)	cum	0.25	3462.65	865.66
3.12	Rate as per Item Number 3.12 of SH: Mortars LABOUR	cum	0.023	4913.10	113.00
0023	Mason (brick layer) 1st class	day	3.90	476.00	1856.40
0010	Bandhani	day	1.10	320.83	352.91
0018	Coolie	day	1.40	320.83	449.16
0011	Bhisti	day	0.55	320.83	176.46
9999	Sundries	L.S.	26.91	2.00	53.82
	Labour for rubbing of stone				
0037	Skilled Beldar (for floor rubbing etc.)	day	0.618	320.83	198.27
013	Machine for rubbing of floors	day	0.988	300.00	296.40
	TOTAL				6630.21 W
	Add 1 % Water charges on "W"				66.30
	TOTAL				6696.51 X
	Add GST (multiplying factor 0.1405) on "X"				940.86
	TOTAL				7637.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				1145.61
	Total				8782.98 Z
	Add Cess @ 1% on "Z"				87.83
	Cost of 10 sqm.				8870.81
	Cost of 1 sqm.				887.08
	Say				887.10
11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab. Details of cost for 10m LABOUR				
0026	Mason (for ornamental stone work) 1st class	day	1.50	476.00	714.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				714.00 W
	Add 1 % Water charges on "W"				7.14
	TOTAL				721.14 X
	Add GST (multiplying factor 0.1405) on "X"				101.32
	TOTAL				822.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				123.37
	Total				945.83 Z
	Add Cess @ 1% on "Z"				9.46
	Cost of 10 sqm.				955.29
	Cost of 1 sqm.				95.53
	Say				95.55
11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.				
	Details of cost for 10sqm.				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				139.07 W
	Add 1 % Water charges on "W"				1.39
	TOTAL				140.46 X
	Add GST (multiplying factor 0.1405) on "X"				19.73
	TOTAL				160.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.03
	Total				184.22 Z
	Add Cess @ 1% on "Z"				1.84
	Cost of 10 sqm.				186.06
	Cost of 1 sqm.				18.61
	Say				18.60
11.33	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :				
11.33.1	Second class teak wood				
	Details of cost for 2.5x4=10 sqm.				
	MATERIAL				
	Second class indian teak wood				
	No of joints = $4000/138 = 28.97$				
	Total = $(29-1) = 28$ nos				
	Qty of wood required				
	$2.5(4+0.336) \times 0.025 = 0.271$ cum				
	Add wastage @ 10 % = 0.027 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.2981 cum = 298.1 cu dm				
1190	Second class teak wood in planks	10 cu dm	29.81	791.00	23579.71
1231	Extra for selected planks of second class teakwood	10 cu dm	29.81	150.00	4471.50
2204	Carriage of Timber	cum	0.2981	121.29	36.16
682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	2.00	76.00	152.00
	LABOUR				
0014	Carpenter 1st class	day	2.68	476.00	1275.68
0017	Beldar	day	1.35	320.83	433.12
9999	Sundries for glue etc.	L.S.	33.28	2.00	66.56
	TOTAL				30014.73 W
	Add 1 % Water charges on "W"				300.15
	TOTAL				30314.87 X
	Add GST (multiplying factor 0.1405) on "X"				4259.24
	TOTAL				34574.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				5186.12
	Total				39760.23 Z
	Add Cess @ 1% on "Z"				397.60
	Cost of 10 sqm.				40157.83
	Cost of 1 sqm.				4015.78
	Say				4015.80

11.33.2 Second class deodar wood

Details of cost for 2.5x4=10 sqm.

MATERIAL

First class deodar wood planks

No of joints = $4000/138 = 28.97$

Total = $(29-1) = 28$ nos

Qty of wood required

$2.5(4+0.336) \times 0.025 = 0.271$ cum

Add wastage @ 10 % = 0.027 cum

Total = 0.2981 cum = 298.1 cu dm

1194	Second class deodar wood in planks	10 cu dm	29.81	500.00	14905.00
2500	Extra for selected planks of second class deodarwood	10 cu dm	29.81	110.00	3279.10
2204	Carriage of Timber	cum	0.2981	121.29	36.16
682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	2.00	76.00	152.00
	LABOUR				
0014	Carpenter 1st class	day	2.16	476.00	1028.16
0017	Beldar	day	1.08	320.83	346.50
9999	Sundries for glue etc.	L.S.	26.91	2.00	53.82
	TOTAL				19800.73 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				198.01
	TOTAL				19998.74 X
	Add GST (multiplying factor 0.1405) on "X"				2809.82
	TOTAL				22808.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				3421.28
	Total				26229.85 Z
	Add Cess @ 1% on "Z"				262.30
	Cost of 10 sqm.				26492.15
	Cost of 1 sqm.				2649.21
	Say				2649.20
11.34	38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.				
	Details of cost for 1sqm.				
	Bitumen blown type				
	i) For bed layer @ 2.45kg/sqm. = 2.45kg+ ii) For dipping blocks L.S. = 2.00Kg.				
	Total = 4.45kg.				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0044	34000.00	149.60
2211	Carriage of Tar bitumen	tonne	0.0044	106.13	0.47
	1st class teal wood in scantling for wooden blocks				
	1 sqm x 0.038 m = 0.038 cum				
	Add 10 % wastage = 0.0038 cum				
	Total = 0.0418 cum or 41.8 cudm				
1187	First class teak wood in scantling	10 cudm	4.18	880.00	3678.40
2204	Carriage of Timber	cum	0.0418	121.29	5.07
	LABOUR				
0014	Carpenter 1st class	day	1.75	476.00	833.00
0017	Beldar	day	2.25	320.83	721.87
0018	Coolie	day	1.50	320.83	481.25
0030	Mistry	day	0.10	476.00	47.60
9999	Sundries such as fuel, kerosene oil, sand paper etc.	L.S.	80.73	2.00	161.46
	TOTAL				6078.71 W
	Add 1 % Water charges on "W"				60.79
	TOTAL				6139.50 X
	Add GST (multiplying factor 0.1405) on "X"				862.60
	TOTAL				7002.10 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				1050.31
	Total				8052.41 Z
	Add Cess @ 1% on "Z"				80.52
	Cost for 1 sqm.				8132.93
	Say				8132.95
11.35	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.				
	Details of cost for 3m (11.40+0.24kg = 11.64kg)				
	MATERIAL				
	Angle iron 50x50x5 mm =3 m				
	Add wastage @ 5% = 0.15 m				
	Total =3.15 m @ 3.80 kg per m = 11.97 kg Say 0.12 qtl				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.12	4600.00	552.00
	Lugs 10x5 mm flat = 6x0.10 = 0.60 m@ 0.40 kg per m = 0.24 kg				
	Add wastage @ 5% = 0.012 kg				
	Total 0.252 kg or 0.0025 qtl				
1008	Flats upto 10 mm in thickness	quintal	0.0025	4500.00	11.25
2205	Carriage of Steel	tonne	0.016	94.34	1.51
1215	Welding by electric plant 6cm (lugs)	cm	6.00	2.00	12.00
9999	Sundries	L.S.	9.10	2.00	18.20
	LABOUR				
0013	Blacksmith 2nd class	day	0.09	374.50	33.71
0023	Mason (brick layer) 1st class	day	0.45	476.00	214.20
0017	Beldar	day	0.25	320.83	80.21
	Priming coat 3x0.20 = 0.60 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.60	33.30	19.98 A
	TOTAL				943.05 W
	Add 1 % Water charges on "W-A"	923.07			9.23
	TOTAL				952.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	932.30			130.99
	TOTAL				1083.27 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1063.29			159.49
	Total				1242.77 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		1222.78		12.23
	Cost for 11.64 kg.				1254.99
	Cost per 1 Kg.				107.82
	Say				107.80
11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.				
	Details of cost for 1 sqm				
	MATERIAL				
	Glazed Ceramic floor tiles 300x300 mm size =				
	1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
	Total = 1.025 sqm				
7801	Ceramic Glazed Tiles 1st quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	Sq.m.	1.025	209.10	214.33
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4				
	(1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement	L.S.	20.20	2.00	40.40
	Cement for slurry over bed @ 3.3 kg per sqm				
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				588.26 W
	Add 1 % Water charges on "W"				
					5.88
	TOTAL				594.14 X
	Add GST (multiplying factor 0.1405) on "X"				
					83.48
	TOTAL				677.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				
					101.64
	Total				779.26 Z
	Add Cess @ 1% on "Z"				
					7.79
	Cost for 1 sqm				787.05
	Say				787.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. Detail of Cost for 1.00 Sqm Material				
7801	Glazed Ceramic Floor Tile = 1.00 Sqm Add for wastage and breakage @2.5% = 0.025 Sqm =1.025 Sqm	sqm	1.025	209.10	214.33
9999	Carriage of Tiles	L.S.	6.24	2.00	12.48
3.8	Cement mortar 1:3 (1 Cement: 3 Coarse Sand)	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement	L.S.	3.64	2.00	7.28
367	Cement for slurry over bed @3.3 Kg/Sqm	tonne	0.0033	4940.00	16.30
	Labour				
0023	Mason 1st Class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9999	Sundries including carriage of Cement etc	L.S.	26.91	2.00	53.82
	Total				565.99 W
	Add 1 % Water charges on "W"				5.66
	TOTAL				571.65 X
	Add GST (multiplying factor 0.1405) on "X"				80.32
	TOTAL				651.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				97.80
	Total				749.76 Z
	Add Cess @ 1% on "Z"				7.50
	Cost for 1 sqm				757.26
	Say				757.25
11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete. Details of cost for 1 sqm MATERIAL Glazed Ceramic floor tiles 300x300 mm size = 1.000 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm				
7802	Ceramic Glazed Tiles Ist quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sq.m.	1.025	260.00	266.50
9977	Carriage of tiles	L.S.	6.24	2.00	12.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	20 mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	20.20	2.00	40.40
367	Portland Cement LABOUR	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				640.43 W
	Add 1 % Water charges on "W"				6.40
	TOTAL				646.83 X
	Add GST (multiplying factor 0.1405) on "X"				90.88
	TOTAL				737.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.66
	Total				848.37 Z
	Add Cess @ 1% on "Z"				8.48
	Cost for 1 sqm				856.85
	Say				856.85
11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
	Details of cost for 1 sqm				
	MATERIAL				
	Rectified Ceramic Glazed floor tiles 300x				
	300 mm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
	Total = 1.025 sqm				
7803	Rectified Ceramic Glazed Tiles Ist quality 300x300mm or more in all shades designs	sq.m.	1.025	340.00	348.50
9977	White, Ivory, Grey, Fuem Red Brown etc. Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	13.47	2.00	26.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
367	Portland Cement LABOUR	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				708.97 W
	Add 1 % Water charges on "W"				7.09
	TOTAL				716.06 X
	Add GST (multiplying factor 0.1405) on "X"				100.61
	TOTAL				816.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				122.50
	Total				939.16 Z
	Add Cess @ 1% on "Z"				9.39
	Cost for 1 sqm				948.56
	Say				948.55

11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.

Details of cost for 1 sqm

MATERIAL

Rectified Ceramic Glazed floor tiles

300x300 mm size or more = 1.000 sqm

Add for wastage & breakage @ 2.5 %

= 0.025 sqm

Total = 1.025 sqm

7804	Rectified Ceramic Glazed Tiles 1st quality 300x300mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sq.m.	1.025	400.00	410.00
9977	Carriage of tiles 20 mm thick Cement mortar 1 : 4 (1 cement : 4 coarse sand)	L.S.	6.24	2.00	12.48
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	13.47	2.00	26.94
367	Portland Cement LABOUR	tonne	0.0033	4940.00	16.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				770.47 W
	Add 1 % Water charges on "W"				7.70
	TOTAL				778.17 X
	Add GST (multiplying factor 0.1405) on "X"				109.33
	TOTAL				887.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				133.13
	Total				1020.63 Z
	Add Cess @ 1% on "Z"				10.21
	Cost for 1 sqm				1030.84
	Say				1030.85
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
11.41.1	Size of Tile 500x500 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 50x50 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	490.00	502.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4				
	(1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	3.64	2.00	7.28
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				843.06 W
	Add 1 % Water charges on "W"				8.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				851.49 X
	Add GST (multiplying factor 0.1405) on "X"				119.63
	TOTAL				971.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.67
	Total				1116.79 Z
	Add Cess @ 1% on "Z"				11.17
	Cost for 1 sqm				1127.96
	Say				1127.95
11.41.2	Size of Tile 600x600 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 60x60 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	659.72	676.21
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4				
	(1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	3.64	2.00	7.28
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				1017.02 W
	Add 1 % Water charges on "W"				10.17
	TOTAL				1027.19 X
	Add GST (multiplying factor 0.1405) on "X"				144.32
	TOTAL				1171.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.73
	Total				1347.24 Z
	Add Cess @ 1% on "Z"				13.47
	Cost for 1 sqm				1360.71
	Say				1360.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.41.3	Size of Tile 800x800 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 80x80 cm size = 1.000 sqm				
	Add for wastage & breakage @ 2.5 %				
	= 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	850.00	871.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4				
	(1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.6	2.00	5.20
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				1209.98 W
	Add 1 % Water charges on "W"				12.10
	TOTAL				1222.08 X
	Add GST (multiplying factor 0.1405) on "X"				171.70
	TOTAL				1393.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				209.07
	Total				1602.85 Z
	Add Cess @ 1% on "Z"				16.03
	Cost for 1 sqm				1618.88
	Say				1618.90

11.41.4 Size of Tile 1000x1000 mm

Details of cost for 1 sqm

MATERIAL

Vitrified floor tiles 100x100 cm size

= 1.000 sqm

Add for wastage & breakage @ 2.5 %

= 0.025 sqm

Total = 1.025 sqm

8623	Vitrified floor tile 100x100 cm	sqm	1.025	1390.00	1424.75
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	20 mm thick Cement mortar 1 : 4				
	(1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for pointing in white cement Cement for slurry over bed @ 3.3 kg per sqm	L.S.	2.6	2.00	5.20
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage of cement etc	L.S.	26.91	2.00	53.82
	TOTAL				1763.48 W
	Add 1 % Water charges on "W"				17.63
	TOTAL				1781.11 X
	Add GST (multiplying factor 0.1405) on "X"				250.25
	TOTAL				2031.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				304.70
	Total				2336.06 Z
	Add Cess @ 1% on "Z"				23.36
	Cost for 1 sqm				2359.43
	Say				2359.45
11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/sqm.				
	Details of cost for 1 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3815.05	91.56
9999	Mortar for pointing in white cement	L.S.	40.43	2.00	80.86
	Cement for slurry over bed @ 3.3 kg per sqm				
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries i/c carriage of cement etc.	L.S.	26.91	2.00	53.82
	Total				401.91 W
	Add 1 % Water charges on "W"				4.02
	TOTAL				405.93 X
	Add GST (multiplying factor 0.1405) on "X"				57.03
	TOTAL				462.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.44
	Total				532.41 Z
	Add Cess @ 1% on "Z"				5.32
	Cost for 1 sqm				537.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				537.75
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.				
	Details of cost for 1 sqm				
	MATERIAL				
8731	High polymer modified quickset tile adhesive.	per kg	5.000	9.00	45.00
9999	Mortar for pointing in white cement	L.S.	40.43	2.00	80.86
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries i/c carriage of cement etc.	L.S.	26.91	2.00	53.82
	Total				339.05 W
	Add 1 % Water charges on "W"				3.39
	TOTAL				342.44 X
	Add GST (multiplying factor 0.1405) on "X"				48.11
	TOTAL				390.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.58
	Total				449.13 Z
	Add Cess @ 1% on "Z"				4.49
	Cost for 1 sqm				453.62
	Say				453.60
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.				
	Details of cost for 10 sqm.				
	MATERIAL				
	Under layer 12 mm thick Cement mortar 1:4 (1 cement : 4 coarse sand).				
3.9	Rate as per Item No.3.9 of SH:Mortar	cum	0.14	3815.05	534.11
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.67	374.50	250.92
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Sundries	L.S.	8.97	2.00	17.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement slurry for subgrade				
367	Portland Cement	tonne	0.04	4940.00	197.60
2209	Carriage of Cement	tonne	0.04	94.34	3.77
	Labour for applying cement slurry				
0017	Beldar	day	0.50	320.83	160.42
	Top layer with tile piece and gap filling with cement motar: Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. (7.00x0.010)=0.07 0.872x0.07/0.051=1.20 qtl				
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	1.20	135.00	162.00
9977	Carriage of tiles	L.S.	62.4	2.00	124.80
	Cement motar 1:4 for filling of crazy tile :(300x0.01=0.03)				
3.9	Rate as per Item No.3.9 of SH:Mortar Synthetic polyster triangular	cum	0.03	3815.05	114.45
4.18	Rate as per Item No.4.18 of SH: CONCRETE WORK	per bag of 50kg	1.38	61.05	84.25 A
	Water proofing compound	of cement			
4.12	Rate as per Item No.4.12 of SH:CONCRETE WORK	per bag of 50 kg of cement	1.38	56.55	78.04 A
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.54	320.83	173.25
9999	Sundries	L.S.	67.25	2.00	134.50
	TOTAL				3784.69 W
	Add 1 % Water charges on "W-A"	3622.40			36.22
	TOTAL				3820.91 X
	Add GST (multiplying factor 0.1405) on "X-A"	3658.62			514.04
	TOTAL				4334.95 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4172.66			625.90
	Total				4960.84 Z
	Add Cess @ 1% on "Z-A"	4798.55			47.99
	Cost of 10 sqm.				5008.83
	Cost of 1 sqm.				500.88
	Say				500.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turf pave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick Sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge. Details of cost for 10 sqm. MATERIAL				
295	Stone Aggregate (Single size) : 20 mm nominal size 1 x 10 x 0.15 = 1.5cum	cum	1.50	1350.00	2025.00
2202	Stone aggregate below 40 mm nominal size LABOUR for spreading ramming and consolidation of sub grade	cum	1.50	106.13	159.20
0017	Beldar	day	0.70	320.83	224.58
0018	Coolie	day	0.52	320.83	166.83
0011	Bhisti	day	0.36	320.83	115.50
	Providing and filling Sand				
2.27	Rate as per Item No.2.27 of SH: EARTH WORK	cum	1.50	1880.15	2820.22 A
2708	Truf Paver (500 x 500 x 40 mm) Labour for laying of Turf pave	sqm	10.00	500.00	5000.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	50.00	2.00	100.00
	TOTAL				11170.16 W
	Add 1 % Water charges on "W-A"	8349.94			83.50
	TOTAL				11253.65 X
	Add (multiplying factor 0.1405) on "X-A"	8433.44			1184.90
	TOTAL				12438.55 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9618.33			1442.75
	Total				13881.30 Z
	Add Cess @ 1% on "Z-A"	11061.08			110.61
	Cost of 10 sqm.				13991.91
	Cost of 1 sqm.				1399.19
	Say				1399.20
11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.46.1	Size of Tile 500x500 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 50 x 50 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	490.00	502.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	12 mm thick Cement mortar 1 : 3				
	(1 cement : 3 coarse sand)				
3.8	Rate as per Item No.3.8 of SH:Mortars	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement	L.S.	3.64	2.00	7.28
	Cement slurry over bed @ 3.3 kg per sqm				
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of quick set polymer	L.S.	26.91	2.00	53.82
	TOTAL				853.91 W
	Add 1 % Water charges on "W"				8.54
	TOTAL				862.45 X
	Add GST (multiplying factor 0.1405) on "X"				121.17
	TOTAL				983.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.54
	Total				1131.17 Z
	Add Cess @ 1% on "Z"				11.31
	Cost for 1 sqm				1142.48
	Say				1142.50
11.46.2	Size of Tile 600x600 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 60 x 60 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	659.72	676.21
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	12 mm thick Cement mortar 1 : 3				
	(1 cement : 3 coarse sand)				
3.8	Rate as per Item No.3.8 of SH:Mortars	cum	0.014	4469.50	62.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for pointing in white cement Cement slurry over bed @ 3.3 kg per sqm	L.S.	3.64	2.00	7.28
367	Portland Cement LABOUR	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of quick set polymer	L.S.	26.91	2.00	53.82
	TOTAL				1027.88 W
	Add 1 % Water charges on "W"				10.28
	TOTAL				1038.15 X
	Add GST (multiplying factor 0.1405) on "X"				145.86
	TOTAL				1184.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				177.60
	Total				1361.62 Z
	Add Cess @ 1% on "Z"				13.62
	Cost for 1 sqm				1375.23
	Say				1375.25
11.46.3	Size of Tile 800x800 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	850.00	871.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	12 mm thick Cement mortar 1 : 3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item No.3.8 of SH:Mortars	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement Cement slurry over bed @ 3.3 kg per sqm	L.S.	3.64	2.00	7.28
367	Portland Cement LABOUR	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of quick set polymer	L.S.	26.91	2.00	53.82
	TOTAL				1222.91 W
	Add 1 % Water charges on "W"				12.23
	TOTAL				1235.14 X
	Add GST (multiplying factor 0.1405) on "X"				173.54
	TOTAL				1408.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				211.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1619.98 Z
	Add Cess @ 1% on "Z"				16.20
	Cost for 1 sqm				1636.18
	Say				1636.20
11.46.4	Size of Tile 1000x1000 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 100 x 100 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1390.00	1424.75
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
	12 mm thick Cement mortar 1 : 3				
	(1 cement : 3 coarse sand)				
3.8	Rate as per Item No.3.8 of SH:MORTARS	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement	L.S.	3.64	2.00	7.28
	Cement slurry over bed @ 3.3 kg per sqm				
367	Portland Cement	tonne	0.0033	4940.00	16.30
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.25	320.83	80.21
9988	Sundries including carriage of quick set polymer	L.S.	26.91	2.00	53.82
	TOTAL				1776.41 W
	Add 1 % Water charges on "W"				17.76
	TOTAL				1794.18 X
	Add GST (multiplying factor 0.1405) on "X"				252.08
	TOTAL				2046.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				306.94
	Total				2353.20 Z
	Add Cess @ 1% on "Z"				23.53
	Cost for 1 sqm				2376.73
	Say				2376.75
11.46A	Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge				
	Details for 1sqm (i.e. 13.33m length)				
	Material				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8624	Border tiles 200x75mm size 5mm thick Tile required= $1.00/(0.20 \times 0.075)=66.70$ tile. Add 2.5% wastage = 1.67 tile	each	68.00	16.00	1088.00
9977	Total 68.37 say 68 tiles Carriage	L.S.	6.24	2.00	12.48
3.8	Cement mortar 1:3 for 12mm base	cum	0.014	4469.50	62.57
9999	Mortar for pointing in white cement	L.S.	40.43	2.00	80.86
367	Cement for slurry over bed@ 3.3kg/sqm Labour	MT	0.0033	4940.00	16.30
0023	Mason 1st class	each	0.25	476.00	119.00
0018	Coolie	each	0.25	320.83	80.21
9999	Sundries $26.91 - 0.16 = 26.75$	L.S.	26.75	2.00	53.50
	Total				1512.92 W
	Add 1 % Water charges on "W"				15.13
	TOTAL				1528.05 X
	Add GST (multiplying factor 0.1405) on "X"				214.69
	TOTAL				1742.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				261.41
	Total				2004.15 Z
	Add Cess @ 1% on "Z"				20.04
	Details of cost for 1sqm i.e. 13.33 mts				2024.20
	Cost per mtr				151.85
	Say				151.85
11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
11.47.1	Size of Tile 500x500 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 50 x 50 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	490.00	502.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10	9.00	90.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.5	320.83	160.42
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				937.97 W
	Add 1 % Water charges on "W"				9.38
	TOTAL				947.34 X
	Add GST (multiplying factor 0.1405) on "X"				133.10
	TOTAL				1080.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				162.07
	Total				1242.51 Z
	Add Cess @ 1% on "Z"				12.43
	Cost for 1 sqm				1254.94
	Say				1254.95
11.47.2	Size of Tile 600x600 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 60 x 60 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	659.72	676.21
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10.00	9.00	90.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.50	320.83	160.42
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				1111.93 W
	Add 1 % Water charges on "W"				11.12
	TOTAL				1123.05 X
	Add GST (multiplying factor 0.1405) on "X"				157.79
	TOTAL				1280.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				192.13
	Total				1472.96 Z
	Add Cess @ 1% on "Z"				14.73
	Cost for 1 sqm				1487.69
	Say				1487.70
11.47.3	Size of Tile 800x800 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 80 x 80 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	850.00	871.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10.00	9.00	90.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.50	320.83	160.42
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				1306.97 W
	Add 1 % Water charges on "W"				13.07
	TOTAL				1320.03 X
	Add GST (multiplying factor 0.1405) on "X"				185.46
	TOTAL				1505.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				225.82
	Total				1731.32 Z
	Add Cess @ 1% on "Z"				17.31
	Cost for 1 sqm				1748.64
	Say				1748.65
11.47.4	Size of Tile 1000x1000 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 100 x 100 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1390.00	1424.75
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10.00	9.00	90.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0018	Coolie	day	0.50	320.83	160.42
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1860.47 W
	Add 1 % Water charges on "W"				18.60
	TOTAL				1879.07 X
	Add GST (multiplying factor 0.1405) on "X"				264.01
	TOTAL				2143.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				321.46
	Total				2464.54 Z
	Add Cess @ 1% on "Z"				24.65
	Cost for 1 sqm				2489.19
	Say				2489.20
11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				
11.48.1	Size of Tile 500x500 mm				
	Details of cost for 1 sqm				
	MATERIAL				
8682	Epoxy Grout	Kg	0.21	371.00	77.91
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0018	Coolie	day	0.10	320.83	32.08
9988	Sundries including carriage	L.S.	5.00	2.00	10.00
	TOTAL				167.59 W
	Add 1 % Water charges on "W"				1.68
	TOTAL				169.27 X
	Add GST (multiplying factor 0.1405) on "X"				23.78
	TOTAL				193.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.96
	Total				222.01 Z
	Add Cess @ 1% on "Z"				2.22
	Cost for 1 sqm				224.23
	Say				224.25
11.48.2	Size of Tile 600x600 mm				
	Details of cost for 1 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8682	Epoxy Grout	Kg	0.18	371.00	66.78
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0018	Coolie	day	0.08	320.83	25.67
9988	Sundries including carriage	L.S.	5.00	2.00	10.00
	TOTAL				140.53 W
	Add 1 % Water charges on "W"				1.41
	TOTAL				141.93 X
	Add GST (multiplying factor 0.1405) on "X"				19.94
	TOTAL				161.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.28
	Total				186.15 Z
	Add Cess @ 1% on "Z"				1.86
	Cost for 1 sqm				188.02
	Say				188.00
11.48.3	Size of Tile 800x800 mm				
	Details of cost for 1 sqm				
	MATERIAL				
8682	Epoxy Grout	Kg	0.15	371.00	55.65
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0018	Coolie	day	0.06	320.83	19.25
9988	Sundries ladders etc	L.S.	5.00	2.00	10.00
	TOTAL				113.46 W
	Add 1 % Water charges on "W"				1.13
	TOTAL				114.59 X
	Add GST (multiplying factor 0.1405) on "X"				16.10
	TOTAL				130.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.60
	Total				150.30 Z
	Add Cess @ 1% on "Z"				1.50
	Cost for 1 sqm				151.80
	Say				151.80

11.48.4 Size of Tile 1000x1000 mm

Details of cost for 1 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8682	Epoxy Grout	Kg	0.11	371.00	40.81
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.04	476.00	19.04
0018	Coolie	day	0.04	320.83	12.83
9988	Sundries including carriage of quick set polymer etc.	L.S.	5.00	2.00	10.00
	TOTAL				82.68 W
	Add 1 % Water charges on "W"				0.83
	TOTAL				83.51 X
	Add GST (multiplying factor 0.1405) on "X"				11.73
	TOTAL				95.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.29
	Total				109.53 Z
	Add Cess @ 1% on "Z"				1.10
	Cost for 1 sqm				110.62
	Say				110.60
11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
11.49.1	Size of Tile 500x500 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 50 x 50 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	490.00	502.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10.00	9.00	90.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.40	320.83	128.33
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				882.08 W
	Add 1 % Water charges on "W"				8.82
	TOTAL				890.90 X
	Add GST (multiplying factor 0.1405) on "X"				125.17
	TOTAL				1016.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				152.41
	Total				1168.49 Z
	Add Cess @ 1% on "Z"				11.68
	Cost for 1 sqm				1180.17
	Say				1180.15
11.49.2	Size of Tile 600x600 mm				
	Details of cost for 1 sqm				
	MATERIAL				
	Vitrified floor tiles 60 x 60 cm size				
	= 1.00 sqm+				
	Add wastage & breakage @ 2.5%				
	= 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	659.72	676.21
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive.	per kg	10.00	9.00	90.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.40	320.83	128.33
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				1056.05 W
	Add 1 % Water charges on "W"				10.56
	TOTAL				1066.61 X
	Add GST (multiplying factor 0.1405) on "X"				149.86
	TOTAL				1216.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				182.47
	Total				1398.93 Z
	Add Cess @ 1% on "Z"				13.99
	Cost for 1 sqm				1412.92
	Say				1412.90
11.49.3	Size of Tile 800x800 mm				
	Details of cost for 1 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	850.00	871.25
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive. LABOUR	per kg	10.00	9.00	90.00
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.40	320.83	128.33
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				1251.08 W
	Add 1 % Water charges on "W"				12.51
	TOTAL				1263.59 X
	Add GST (multiplying factor 0.1405) on "X"				177.53
	TOTAL				1441.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				216.17
	Total				1657.30 Z
	Add Cess @ 1% on "Z"				16.57
	Cost for 1 sqm				1673.87
	Say				1673.85
11.49.4	Size of Tile 1000x1000 mm				
	Details of cost for 1 sqm MATERIAL Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1390.00	1424.75
9977	Carriage of tiles	L.S.	6.24	2.00	12.48
8731	High polymer modified quickset tile adhesive. LABOUR	per kg	10.00	9.00	90.00
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.40	320.83	128.33
9988	Sundries including carriage of quick set polymer etc.	L.S.	26.91	2.00	53.82
	TOTAL				1804.58 W
	Add 1 % Water charges on "W"				18.05
	TOTAL				1822.63 X
	Add GST (multiplying factor 0.1405) on "X"				256.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2078.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				311.81
	Total				2390.51 Z
	Add Cess @ 1% on "Z"				23.91
	Cost for 1 sqm				2414.42
	Say				2414.40
11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.				
	Details of cost for 1 sqm				
	MATERIAL				
9999	Mortar for pointing in white cement with matching pigment	L.S.	3.12	2	6.24
9999	LABOUR	L.S.	1.00	2	2.00
	TOTAL				8.24 W
	Add 1 % Water charges on "W"				0.08
	TOTAL				8.32 X
	Add GST (multiplying factor 0.1405) on "X"				1.17
	TOTAL				9.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				1.42
	Total				10.92 Z
	Add Cess @ 1% on "Z"				0.11
	Cost for 1 sqm				11.02
	Say				11.00
11.51	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
11.51.1	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.				
	Details of cost per 10 sqm				
	MATERIAL				
	18 mm thick italian marble stone slab 10.00 sqm				
	Add for wastage 15%= 1.50 sqm				
	Total: 11.50 sqm				
1240	18 mm thick Italian Marble stone slab,	sqm	11.5	3209.00	36903.50
	Base mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.224	3815.05	854.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cemnt for slurry@, 4.4 kg/sqm (i) for bedding=44 kg+ (ii) for jointing= 6 kg Total=50 kg				
368	White Cement	tonne	0.05	11200.00	560.00
2209	Carriage of white Cement	tonne	0.05	94.34	4.72
9999	carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR :				
	(for finishing , polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.20	476.00	571.20
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9999	Mortar for pointing in white cement	L.S.	25.74	2.00	51.48
	TOTAL				42445.10 W
	Add 1 % Water charges on "W"				424.45
	TOTAL				42869.55 X
	Add GST (multiplying factor 0.1405) on "X"				6023.17
	TOTAL				48892.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				7333.91
	Total				56226.63 Z
	Add Cess @ 1% on "Z"				562.27
	Cost of 10 sqm.				56788.89
	Cost of 1 sqm.				5678.89
	Say				5678.90
11.52	Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
11.52.1	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.				
	Details of cost per 10 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	18 mm thick italian marble stone slab 10.00 sqm				
	Add for wastage 20%= 2 sqm				
	Total: 12 sqm				
1240	18 mm thick Italian Marble stone slab,	sqm	12.00	3209.00	38508.00
	Base mortar 1:4 (1 cement :4 coarse sand)				
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.224	3815.05	854.57
	Cement for slurry @, 4.4 kg/sqm				
	(i) for bedding=44 kg+				
	(ii) for jointing= 6 kg				
	Total=50 kg				
368	White Cement	tonne	0.05	11200.00	560.00
2209	Carriage of white Cement	tonne	0.05	94.34	4.72
9999	carriage of marble slab	L.S.	26.91	2.00	53.82
	LABOUR :				
	(for finishing , polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.75	476.00	833.00
0017	Beldar	day	1.25	320.83	401.04
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
013	Machine for rubbing of floors	day	4.00	300.00	1200.00
9999	Mortar for pointing in white cement	L.S.	25.74	2.00	51.48
	TOTAL				44391.61 W
	Add 1 % Water charges on "W"				443.92
	TOTAL				44835.52 X
	Add GST (multiplying factor 0.1405) on "X"				6299.39
	TOTAL				51134.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				7670.24
	Total				58805.15 Z
	Add Cess @ 1% on "Z"				588.05
	Cost of 10 sqm.				59393.20
	Cost of 1 sqm.				5939.32
	Say				5939.30
11.53	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:				
	Details of cost per 8 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Glass mosaaic tiles (20 mm x 20 mm x 4mm)				
	Add for wastage 2.5%= 0.2 sqm				
	Total: 8.20 sqm				
1242	Glass mosaaic tiles (20 mm x 20 mm x 4 mm)	sqm	8.20	2049.00	16801.80
1243	Tile fixing chemical adhesive	kg	20.00	8.70	174.00
1244	Cement Polymer Grout Compound	kg	10.00	16.00	160.00
1245	Acid for cleaning tiles	litre	4.00	18.00	72.00
9999	carriage of marble slab	L.S.	49.92	2.00	99.84
	LABOUR :				
	(for finishing , polishing and fixing)				
0023	Mason (brick layer) 1st class	day	1.60	476.00	761.60
0018	Coolie	day	1.60	320.83	513.33
9999	Sundries including carriage of adhesive etc.	L.S.	26.91	2.00	53.82
	TOTAL				18636.39 W
	Add 1 % Water charges on "W"				186.36
	TOTAL				18822.75 X
	Add GST (multiplying factor 0.1405) on "X"				2644.60
	TOTAL				21467.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				3220.10
	Total				24687.45 Z
	Add Cess @ 1% on "Z"				246.87
	Cost for 8.00 sqm				24934.33
	Cost for 1.00 sqm				3116.79
	Say				3116.80

11.54 Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of:

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
(a)	Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.				
(b)	Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.				
(c)	Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.				

11.54.1 300 mm Finished Floor Height (FFH)

Details of Cost for : 100.00 Sqm

MATERIALS :

2711	FS800H Grade Flooring Panel (i/c) 5% wastage	each	292.00	750.00	219000.00
2712	Zinc Electroplated Pedestals - 300 mm	each	360.00	140.00	50400.00
2714	Zinc Electroplated Tube Stinger	each	570.00	66.00	37620.00
2715	Machine Screw for Fixing	each	1140.00	2.00	2280.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7048	Rawl Plug floor pedestal grouting on floor	each	1440.00	25.00	36000.00
9999	Carriage of material	L.S.	490.00	2.00	980.00
	LABOUR :				
0014	Carpenter 1st class	day	25.00	476.00	11900.00
0017	Beldar	day	25.00	320.83	8020.75
9999	Sundries	L.S.	329.00	2.00	658.00
	TOTAL				366858.75 W
	Add 1 % Water charges on "W"				3668.59
	TOTAL				370527.34 X
	Add GST (multiplying factor 0.1405) on "X"				52059.09
	TOTAL				422586.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				63387.96
	Total				485974.39 Z
	Add Cess @ 1% on "Z"				4859.74
	Cost of 100 sqm.				490834.14
	Cost of 1 sqm				4908.34
	Say				4908.35

11.54.2 450 mm Finished Floor Height (FFH).

Details of Cost for : 100.00 Sqm

MATERIALS :

2711	FS800H Grade Flooring Panel	each	292.00	750.00	219000.00
2713	Zinc Electroplated Pedestals - 450 mm	each	360.00	200.00	72000.00
2714	Zinc Electroplated Tube Stinger	each	570.00	66.00	37620.00
2715	Machine Screw for Fixing	each	1140.00	2.00	2280.00
7048	Rawl plug 50 mm (designation 10 no.)	each	1440.00	25.00	36000.00
9999	Carriage of material	L.S.	490.00	2.00	980.00
	LABOUR :				
0014	Carpenter 1st class	day	25.00	476.00	11900.00
0017	Beldar	day	25.00	320.83	8020.75
9999	Sundries	L.S.	329.00	2.00	658.00
	TOTAL				388458.75 W
	Add 1 % Water charges on "W"				3884.59
	TOTAL				392343.34 X
	Add GST (multiplying factor 0.1405) on "X"				55124.24
	TOTAL				447467.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				67120.14
	Total				514587.71 Z
	Add Cess @ 1% on "Z"				5145.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 100 sqm.				519733.59
	Cost of 1 sqm				5197.34
	Say				5197.35
11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.				
	Details of cost per 10 sqm				
	MATERIAL				
	18mm thick - Flamed finish granite slab = 10.00 sqm+Add for wastage 15% =1.50 sqm, Total 11.50 sqm				
	Total: 11.50 sqm				
1239	18mm thick - Flamed finish granite slab	sqm	11.50	1000.00	11500.00
	Base mortar 1:4 (1 cement :4 coarse sand)				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.34	63.21
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.224	3815.05	854.57
	Cemnt for slurry @, 4.4 kg/sqm				
	(i) for bedding=44 kg+				
	(ii) for jointing= 6 kg				
	Total=50 kg				
367	Portland Cement	tonne	0.05	4940.00	247.00
874	Black colour dark shade pigment	kilogram	4.50	70.00	315.00
2209	Carriage of white Cement	tonne	0.05	94.34	4.72
9999	Mortar for pointing in white cement	L.S.	25.35	2.00	50.70
	LABOUR :				
	(for finishing , polishing and fixing)				
0024	Mason (brick layer) 2nd class	day	1.20	374.50	449.40
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
9999	Sundries	L.S.	208.13	2.00	416.26
	TOTAL				16146.66 W
	Add 1 % Water charges on "W"				161.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				16308.13 X
	Add GST (multiplying factor 0.1405) on "X"				2291.29
	TOTAL				18599.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				2789.91
	Total				21389.34 Z
	Add Cess @ 1% on "Z"				213.89
	Cost of 10 sqm.				21603.23
	Cost of 1 sqm.				2160.32
	Say				2160.30

11.56 Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.

11.56.1 Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.

Details of cost per 10 sqm

MATERIAL

18 mm thick polished finish granite stone slab

10.00 sqm + 1.50 (Add for wastage 15%)=

Total: 11.50 sqm

7297	Granite of any colour. 18 mm thick (slab area above 0.50 sqm)	sqm	11.50	1800.00	20700.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.67	94.34	63.21
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.224	3815.05	854.57
367	Portland Cement	tonne	0.05	4940.00	247.00
874	Black colour dark shade pigment	kilogram	4.5	70.00	315.00
2209	Carriage of white Cement	tonne	0.05	94.34	4.72
9999	Mortar for pointing in white cement (11.22)	L.S.	25.35	2.00	50.70

LABOUR :

(for finishing , polishing and fixing)

0024	Mason (brick layer) 2nd class	day	1.20	374.50	449.40
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
0037	Skilled Beldar (for floor rubbing etc.)	day	2.00	320.83	641.66
019	Machine for cutting (hand grinding)	day	2.00	250.00	500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	208.13	2.00	416.26
	TOTAL				24884.17 W
	Add 1 % Water charges on "W"				248.84
	TOTAL				25133.02 X
	Add GST (multiplying factor 0.1405) on "X"				3531.19
	TOTAL				28664.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				4299.63
	Total				32963.84 Z
	Add Cess @ 1% on "Z"				329.64
	Cost of 10 sqm.				33293.47
	Cost of 1 sqm.				3329.35
	Say				3329.35

SUB HEAD : 12.0

ROOFING

12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

12.1.1 1.00 mm thick with zinc coating not less than 275 gm/m²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a roof with each sloping side 18.09x5.10m and slop being flatter than 1 vertical to 2.5 horizontal Area of roof = 2x18.09x5.10 = 184.518 sqm. MATERIAL C.G.S. sheets 2x27 =54 nos. of size 2.5x0.9 metre @19.35 Kg each =1044.90Kg. 2x27=54 nos. of size 2.8x0.9@21.67kg. each =1170.18Kg.+ Total = 2215.08Kg.+ Add 5% Wastage = 110.75Kg. Total = 2325.83 Kg = 23.26 quintals				
3050	Galvanised steel corrugated sheets	quintal	23.260	5600.00	130256.00
2302	Carriage of G.I. sheet and accessories G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.	tonne	2.326	94.34	219.43
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 nos. of bolts in each sheet = 810 nos.	10 Nos	88.40	38.00	3359.20
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	81.00	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 Nos	16.94	21.00	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	53.82	2.00	107.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0030	Mistry	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	15.50	374.50	5804.75
0017	Beldar	day	15.50	320.83	4972.87
4202	Red oxide Zinc chromate primer	litre	2.53	110.00	278.30
9977	Carriage of material	L.S.	0.52	2.00	1.04
0031	Painter	day	1.13	374.50	423.19
0018	Coolie	day	1.13	320.83	362.54
9999	Brushes, sand papers i/c sundries	L.S.	50.57	2.00	101.14
845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9977	Carriage of paint	L.S.	6.76	2.00	13.52
0031	Painter	day	2.53	374.50	947.49
0018	Coolie	day	2.53	320.83	811.70
9999	Brushes and Sandpapers	L.S.	31.98	2.00	63.96
9999	Sundries	L.S.	38.09	2.00	76.18
	TOTAL				159505.49 W
	Add 1 % Water charges on "W"				1595.05
	TOTAL				161100.55 X
	Add GST (multiplying factor 0.1405) on "X"				22634.63
	TOTAL				183735.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				27560.28
	Total				211295.45 Z
	Add Cess @ 1% on "Z"				2112.95
	Cost of 184.518 Sqm.				213408.41
	Cost of 1 Sqm.				1156.57
	Say				1156.55

12.1.2 0.80 mm thick with zinc coating not less than 275 gm/m²

Details of cost for a roof with each sloping side 18.09x5.10m and slop being flatter than 1 vertical to 2.5 horizontal
Area of roof = 2x18.09x5.1 = 184.518 sqm.

Details of length and breadth.

Length

26(laps)x0.135(each lap)=3.51

Width of Corrugator sheet with 10

corrugation measured end to end = 0.8

metres 27 (nos. of sheets)x0.80

(width of sheet) = 21.60 length

Less laps = 3.51

Length = 18.09

Breadth on one side

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length Total = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1 m MATERIAL C.G.I.Sheets 0.8mm thick 2x27=54nos. @15.82Kg.each Total = 854.38Kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54nos. of size. 2.8x0.9@17.72Kg each = 956.8Kg (Y) Total of (X)+(Y) = 1811.16Kg. Add wastage @5% = 90.56Kg.				
3050	Galvanised steel corrugated sheets	quintal	19.020	5600.00	106512.00
2302	Carriage of G.I. sheet and accessories G.I. scam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.	tonne	1.902	94.34	179.43
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	88.40	38.00	3359.20
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	81.00	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 Nos	16.94	21.00	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	53.82	2.00	107.64
	LABOUR				
0030	Mistry	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	15.50	374.50	5804.75
0017	Beldar	day	15.50	320.83	4972.87
4202	Red oxide Zinc chromate primer	litre	2.53	110.00	278.30
9977	Carriage of material	L.S.	0.52	2.00	1.04
0031	Painter	day	1.13	374.50	423.19
0018	Coolie	day	1.13	320.83	362.54
9999	Brushes, sand papers i/c sundries	L.S.	50.57	2.00	101.14
845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9977	Carriage of paint	L.S.	6.76	2.00	13.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0031	Painter	day	2.53	374.50	947.49
0018	Coolie	day	2.53	320.83	811.70
9999	Brushes and Sandpapers	L.S.	31.98	2.00	63.96
9999	Sundries	L.S.	38.09	2.00	76.18
	TOTAL				135721.49 W
	Add 1 % Water charges on "W"				1357.21
	TOTAL				137078.71 X
	Add GST (multiplying factor 0.1405) on "X"				19259.56
	TOTAL				156338.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				23450.74
	Total				179789.01 Z
	Add Cess @ 1% on "Z"				1797.89
	Cost of 184.518 Sqm.				181586.90
	Cost of 1 Sqm.				984.11
	Say				984.10

12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m²

Details of cost for a roof with each sloping side
18.09x5.10m and slop being flatter than 1
vertical to 2.5 horizontal
Area of roof = $2 \times 18.09 \times 5.1 = 184.518$ sqm.

Details of length and breadth.

Length = $26(\text{laps}) \times 0.135(\text{each lap}) = 3.51$ Width
of Corrugator sheet with 10 corrugation
measured end to end = 0.8 metres 27 (nos. of
sheets) $\times 0.80$
(width of sheet) = 21.60 length
Less laps = 3.51

Length = 18.09

Breadth on one side-

C.G.S. Sheet 1 No. of = 2.5 metres length+

C.G.S. Sheet 1 No. of = 2.8 metres length

= 5.3 metres

Deduct end lap of 20cm (-) 0.2 metres

breadth = 5.1m

MATERIAL

C.G.I. Sheets 0.8mm thick

$2 \times 27 = 54$ nos. @ 12.82Kg. each

= 692.28 Kg(X)

2.5mx0.9m is the size of plain G.I. sheet which
on being corrugated will become
2.5mx0.8m

(The size of plain sheet is taken because the
weight is available only of plain sheets) (Refer
I.S. Code 277-1962) $2 \times 27 = 54$ nos. of size.

$2.8 \times 0.9 @ 13.38$ Kg each = 775.44Kg (Y) Total
of (X)+(Y) = 1467.72Kg.

Add wastage @5% = 73.39Kg.

Total = 1541.11Kg = 15.41q

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3050	Galvanised steel corrugated sheets	quintal	15.410	5600.00	86296.00
2302	Carriage of G.I. sheet and accessories G.I. scam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1metre No. of bolts in one lap 5.1/0.3 =17 nos. 2x26(laps)x17 nos. = 884 nos.	tonne	1.540	94.34	145.28
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	88.40	38.00	3359.20
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	81.00	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 Nos	16.94	21.00	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	53.82	2.00	107.64
	LABOUR				
0030	Mistry	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	15.50	374.50	5804.75
0017	Beldar	day	15.50	320.83	4972.87
4202	Red oxide Zinc chromate primer	litre	2.53	110.00	278.30
9977	Carriage of material	L.S.	0.52	2.00	1.04
0031	Painter	day	1.13	374.50	423.19
0018	Coolie	day	1.13	320.83	362.54
9999	Brushes, sand papers i/c sundries	L.S.	50.57	2.00	101.14
845	Roofing paint for iron sheets in red colour	litre	3.75	120.00	450.00
9977	Carriage of paint	L.S.	6.76	2.00	13.52
0031	Painter	day	2.53	374.50	947.49
0018	Coolie	day	2.53	320.83	811.70
9999	Brushes and Sandpapers	L.S.	31.98	2.00	63.96
9999	Sundries	L.S.	38.09	2.00	76.18
	TOTAL				115471.34 W
	Add 1 % Water charges on "W"				1154.71
	TOTAL				116626.06 X
	Add GST (multiplying factor 0.1405) on "X"				16385.96
	TOTAL				133012.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				19951.80
	Total				152963.82 Z
	Add Cess @ 1% on "Z"				1529.64
	Cost of 184.518 Sqm.				154493.46
	Cost of 1 Sqm.				837.28
	Say				837.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.2	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter for chimney stacks, sky light etc.:				
12.2.1	1.00 mm thick				
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm ² and the perimeter of the hole 3 metre LABOUR				
0012	Blacksmith 1st class	day	0.15	476.00	71.40
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				119.52 W
	Add 1 % Water charges on "W"				1.20
	TOTAL				120.72 X
	Add GST (multiplying factor 0.1405) on "X"				16.96
	TOTAL				137.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.65
	Total				158.33 Z
	Add Cess @ 1% on "Z"				1.58
	Cost of 3.00 metres				159.92
	Cost of 1.00 metre				53.31
	Say				53.30
12.2.2	0.80 mm thick				
	Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm ² and the perimeter of the hole 3 metre LABOUR				
0012	Blacksmith 1st class	day	0.12	476.00	57.12
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				95.62 W
	Add 1 % Water charges on "W"				0.96
	TOTAL				96.58 X
	Add GST (multiplying factor 0.1405) on "X"				13.57
	TOTAL				110.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.52
	Total				126.67 Z
	Add Cess @ 1% on "Z"				1.27
	Cost of 3.00 metres				127.93
	Cost of 1.00 metre				42.64
	Say				42.65
12.2.3	0.63 mm thick				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3 metres periphery				
	Assuming a hole of 10dmx5dm area of the hole 50dm ² and the perimeter of the hole 3 metre				
	LABOUR				
0012	Blacksmith 1st class	day	0.12	476.00	57.12
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				95.62 W
	Add 1 % Water charges on "W"				0.96
	TOTAL				96.58 X
	Add GST (multiplying factor 0.1405) on "X"				13.57
	TOTAL				110.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.52
	Total				126.67 Z
	Add Cess @ 1% on "Z"				1.27
	Cost of 3.00 metres				127.93
	Cost of 1.00 metre				42.64
	Say				42.65
12.3	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimeter:				
12.3.1	1.00 mm thick				
	Details of cost for 10 holes of 0.5 metre dia-				
	metre				
	Perimetre of 10 nos 10x22/7x0.5 = 15.71				
	metre				
	LABOUR				
0012	Blacksmith 1st class	day	3.13	476.00	1489.88
0017	Beldar	day	6.26	320.83	2008.40
	TOTAL				3498.28 W
	Add 1 % Water charges on "W"				34.98
	TOTAL				3533.26 X
	Add GST (multiplying factor 0.1405) on "X"				496.42
	TOTAL				4029.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				604.45
	Total				4634.13 Z
	Add Cess @ 1% on "Z"				46.34
	Cost of 15.71 metres				4680.47
	Cost of 1.00 metre				297.93
	Say				297.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.3.2	0.80 mm thick				
	Details of cost for 10 holes of 0.5 metre dia-metre				
	Perimetre of 10 nos 10x22/7x0.5 =				
	15.71 metre				
	LABOUR				
0012	Blacksmith 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				2794.15 W
	Add 1 % Water charges on "W"				27.94
	TOTAL				2822.09 X
	Add GST (multiplying factor 0.1405) on "X"				396.50
	TOTAL				3218.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				482.79
	Total				3701.38 Z
	Add Cess @ 1% on "Z"				37.01
	Cost of 15.71 metres				3738.40
	Cost of 1.00 metre				237.96
	Say				237.95
12.3.3	0.63 mm thick				
	Details of cost for 10 holes of 0.5 metre dia-metre				
	Perimetre of 10 nos 10x22/7x0.5 = 15.71 metre				
	LABOUR				
0012	Blacksmith 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				2794.15 W
	Add 1 % Water charges on "W"				27.94
	TOTAL				2822.09 X
	Add GST (multiplying factor 0.1405) on "X"				396.50
	TOTAL				3218.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				482.79
	Total				3701.38 Z
	Add Cess @ 1% on "Z"				37.01
	Cost of 15.71 metres				3738.40
	Cost of 1.00 metre				237.96
	Say				237.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.				
12.4.1	0.80 mm thick with zinc coating not less than 275 gm/m²				
	Details of cost for 10.35 metres long ridge				
	0.80mm thick with zinc coating not less than 275gm/m²				
	Consider the length of the ridge 10.35 metres.				
	The ridge will be made out of plain G.I. Sheets				
	0.9mx1.8m				
	Three pieces will be 0.9m long and 0.60m wide overlapping 22.5cm.				
	MATERIAL				
	G.I. plain sheets 0.80 thick				
	1.80x0.90m size 5 nos. @ 11.39Kg. sheet = 56.95Kg + Add 2% wastage = 1.14 Kg.				
	Total = 58.09 Kg. or 0.58 q.				
992	Galvanised steel plain sheets	quintal	0.580	5000.00	2900.00
2302	Carriage of G.I. sheet and accessories	tonne	0.058	94.34	5.47
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	2.800	10.00	28.00
	25mmx6mm (There are 14 joints)				
1211	G.I. plain washer for seam bolts	100 Nos	0.28	32.00	8.96
1208	Bitumen washer	100 Nos	0.28	30.00	8.40
9977	Carriage of seam bolts and washers	L.S.	1.82	2.00	3.64
9999	Sundries	L.S.	13.52	2.00	27.04
	LABOUR				
0030	Mistry	day	0.40	476.00	190.40
0012	Blacksmith 1st class	day	1.20	476.00	571.20
0013	Blacksmith 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	2.40	320.83	769.99
	TOTAL				4812.70 W
	Add 1 % Water charges on "W"				48.13
	TOTAL				4860.83 X
	Add GST (multiplying factor 0.1405) on "X"				682.95
	TOTAL				5543.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				831.57
	Total				6375.34 Z
	Add Cess @ 1% on "Z"				63.75
	Cost of 10.35 metres				6439.10
	Cost of 1.00 metre				622.14
	Say				622.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

12.4.2 0.63 mm thick with zinc coating not less than 275 gm/m²

Details of cost for 10.35 metre long ridge.

G.I. plain sheets 0.63mm thick 1.8x0.9m size 5
nos. @9.23 Kg.
per sheet = 46.15 Kg. + Add 2% wastage =
0.91 Kg.
Total = 47.07 Kg.

Say 47 Kg.

992	Galvanised steel plain sheets	quintal	0.470	5000.00	2350.00
2302	Carriage of G.I. sheet and accessories	tonne	0.047	94.34	4.43
222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	2.800	10.00	28.00
1211	G.I. plain washer for seam bolts	100 Nos	0.280	32.00	8.96
1208	Bitumen washer	100 Nos	0.28	30.00	8.40
9977	Carriage of seam bolts and washers	L.S.	1.82	2.00	3.64
9999	Sundries	L.S.	13.52	2.00	27.04
LABOUR					
0030	Mistry	day	0.40	476.00	190.40
0012	Blacksmith 1st class	day	1.20	476.00	571.20
0013	Blacksmith 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	2.40	320.83	769.99
TOTAL					4261.67 W
Add 1 % Water charges on "W"					42.62
TOTAL					4304.28 X
Add GST (multiplying factor 0.1405) on "X"					604.75
TOTAL					4909.03 Y
Add 15 % Contractor's profit and overheads on "Y"					736.36
Total					5645.39 Z
Add Cess @ 1% on "Z"					56.45
Cost of 10.35 metres					5701.84
Cost of 1.00 metre					550.90
Say					550.90

12.5 Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete :

12.5.1 1.60 mm thick with zinc coating not less than 350 gm/m²

Details of cost for 9.325m

MATERIAL

G.I. plain sheets 2.5x0.9m
4 nos. @ 29.95Kg/sheet =119.80Kg.+ Add 2%
wastage = 2.40Kg.
Total = 122.20 kg. or 1.222q.

992	Galvanised steel plain sheets	quintal	1.222	5000.00	6110.00
2302	Carriage of G.I. sheet and accessories	tonne	0.120	94.34	11.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	1.200	10.00	12.00
1211	G.I. plain washer for seam bolts	100 Nos	0.12	32.00	3.84
1208	Bitumen washer	100 Nos	0.12	30.00	3.60
9977	Carriage of bolts, nuts and washers	L.S.	0.91	2.00	1.82
9999	Sundries	L.S.	13.52	2.00	27.04
	LABOUR				
0030	Mistry	day	0.40	476.00	190.40
0012	Blacksmith 1st class	day	1.20	476.00	571.20
0013	Blacksmith 2nd class	day	0.80	374.50	299.60
0017	Beldar	day	2.40	320.83	769.99
	TOTAL				8000.81 W
	Add 1 % Water charges on "W"				80.01
	TOTAL				8080.82 X
	Add GST (multiplying factor 0.1405) on "X"				1135.36
	TOTAL				9216.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				1382.43
	Total				10598.60 Z
	Add Cess @ 1% on "Z"				105.99
	Cost of 9.325 metres				10704.59
	Cost of 1.00 metre				1147.95
	Say				1147.95
12.6	Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1 cement : 3 coarse sand).				
12.6.1	1.00 mm thick with zinc coating not less than 275 gm/m²				
	Details of cost for 12.125m				
	Consider a length of flashing 12.125 metres.				
	MATERIAL				
	G.I. plain sheet 1.25mm thick 3.2x0.75m				
	2 nos. @ 20.64 Kg. = 41.28 Kg.+				
	Add 2% wastage = 0.83 Kg				
	Total = 42.11 Kg. or 0.4211 quintal				
992	Galvanised steel plain sheets	quintal	0.4211	5000.00	2105.50
2302	Carriage of G.I. sheet and accessories	tonne	0.041	94.34	3.87
222	Seam bolts and nuts 6 mm dia and 25 mm long (taking 2 bolts per joints)	10 Nos	0.60	10.00	6.00
1207	G.I. Limpet washer	100 Nos	0.06	21.00	1.26
1208	Bitumen washer	100 Nos	0.06	30.00	1.80
9977	Carriage of G.I. seam bolts and washers	L.S.	0.39	2.00	0.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	10.79	2.00	21.58
	LABOUR				
0030	Mistry	day	0.50	476.00	238.00
0012	Blacksmith 1st class	day	1.48	476.00	704.48
0013	Blacksmith 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				4420.26 W
	Add 1 % Water charges on "W"				44.20
	TOTAL				4464.46 X
	Add GST (multiplying factor 0.1405) on "X"				627.26
	TOTAL				5091.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				763.76
	Total				5855.47 Z
	Add Cess @ 1% on "Z"				58.55
	Cost of 12.125 metres				5914.03
	Cost of 1.00 metre				487.76
	Say				487.75
12.7	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.				
12.7.1	0.80 mm thick with zinc coating not less than 275 gm/m²				
	Details of cost for 9.04m				
	0.80mm thick with zinc coating not less than				
	275gm/m ²				
	Consider a length of 9.04m Sheet used =				
	2.5x0.90m = 2 nos.				
	Wt. = 2x15.82=31.64 Kg. = 0.3164q				
	Total = 0.3164quintal				
	MATERIAL				
992	Galvanised steel plain sheets	quintal	0.3164	5000.00	1582.00
2302	Carriage of G.I. sheet and accessories	tonne	0.0316	94.34	2.98
1008	Flats upto 10 mm in thickness	quintal	0.0749	4500.00	337.05
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	2.00	38.00	76.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	9.00	270.00
1210	G.I. plain washer thin	100 Nos	0.70	21.00	14.70
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of G.I. seam bolts and washers	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	5.33	2.00	10.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0012	Blacksmith 1st class	day	0.500	476.00	238.00
0017	Beldar	day	0.500	320.83	160.42
9999	Sundries	L.S.	12.61	2.00	25.22
0030	Mistry	day	0.28	476.00	133.28
0012	Blacksmith 1st class	day	0.84	476.00	399.84
0015	Carpenter 2nd class	day	0.62	374.50	232.19
0017	Beldar	day	1.68	320.83	538.99
	TOTAL				4038.79 W
	Add 1 % Water charges on "W"				40.39
	TOTAL				4079.18 X
	Add GST (multiplying factor 0.1405) on "X"				573.12
	TOTAL				4652.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				697.85
	Total				5350.15 Z
	Add Cess @ 1% on "Z"				53.50
	Cost of 9.0400 metres				5403.65
	Cost of 1.00 metre				597.75
	Say				597.75

12.7.2 0.63 mm thick with zinc coating not less than 275 gm/m²

Details of cost for 9.04m

0.63mm thick with zinc coating not less than

275gm/m²

Consider a length of 9.04m Sheet used =
2.5x0.90m = 2 nos.

Wt. = 2x11.82=23.64 Kg. = 0.2364q

Total = 0.2364quintal

MATERIAL

992	Galvanised steel plain sheets	quintal	0.2364	5000.00	1182.00
2302	Carriage of G.I. sheet and accessories	tonne	0.0236	94.34	2.23
1008	Flats upto 10 mm in thickness	quintal	0.0749	4500.00	337.05
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	2.00	38.00	76.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	9.00	270.00
1210	G.I. plain washer thin	100 Nos	0.70	21.00	14.70
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of G.I. seam bolts and washers	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	5.33	2.00	10.66
	LABOUR				
0012	Blacksmith 1st class	day	0.50	476.00	238.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	12.61	2.00	25.22
0030	Mistry	day	0.28	476.00	133.28
0012	Blacksmith 1st class	day	0.84	476.00	399.84
0015	Carpenter 2nd class	day	0.62	374.50	232.19
0017	Beldar	day	1.68	320.83	538.99
	TOTAL				3638.04 W
	Add 1 % Water charges on "W"				36.38
	TOTAL				3674.42 X
	Add GST (multiplying factor 0.1405) on "X"				516.26
	TOTAL				4190.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				628.60
	Total				4819.27 Z
	Add Cess @ 1% on "Z"				48.19
	Cost of 9.04 metres				4867.47
	Cost of 1.00 metre				538.44
	Say				538.45
12.8	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required. Details of cost for 216.14 sqm area of roof upto 60° pitch Upto 60 degree pitch Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- $20.2 \times 10.70 \text{m} = 216.14 \text{ sqm.}$ MATERIAL Sheets used = $2 \times 20 \text{ nos.} \times 3.00 \text{m} \times 1.05 \text{m}$ $= 126.00 \text{ sqm} +$ $2 \times 20 \text{ nos.} \times 2.50 \text{m} \times 1.05 \text{m} = 105.00 \text{ sqm.}$ Total = $231.00 \text{ sqm.} + \text{Add } 3\% \text{ wastage} = 6.93$ Total = 237.93 sqm.				
223	Oorganic fibres and/or inorganic synthetic fibres	sqm	237.93	225.00	53534.25
	$2 \times 20 \times 0.42147 = 1.68588 +$				
	$2 \times 20 \times 0.35123 = 1.4049$				
	Total = $3.0908 +$				
	Add 3 % wastage = 0.092				
	Total = 3.1835 Say 3.184 t				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2273	Carriage of A.C.sheet and accessories	tonne	3.184	94.34	300.37
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	47.6	120.00	5712.00
1208	Bitumen washer	100 Nos	4.76	30.00	142.80
1209	G.I. plain washer thick	100 Nos	4.76	35.00	166.60
9977	Carriage of bolts and nuts, washers etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	39.52	2.00	79.04
	LABOUR				
0030	Mistry	day	2.34	476.00	1113.84
0015	Carpenter 2nd class	day	9.34	374.50	3497.83
0017	Beldar	day	9.34	320.83	2996.55
	TOTAL				67559.40 W
	Add 1 % Water charges on "W"				675.59
	TOTAL				68235.00 X
	Add GST (multiplying factor 0.1405) on "X"				9587.02
	TOTAL				77822.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				11673.30
	Total				89495.32 Z
	Add Cess @ 1% on "Z"				894.95
	Cost of 216.14 sqm.				90390.27
	Cost of 1.00 sqm.				418.20
	Say				418.20
12.9	Extra for straight cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated, semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.				
	Details of cost for 3 metres of periphery Area of cutting 0.9mx0.6m=0.54sqm. Perimeter = 3 metres				
	LABOUR				
0014	Carpenter 1st class	day	0.12	476.00	57.12
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				95.62 W
	Add 1 % Water charges on "W"				0.96
	TOTAL				96.58 X
	Add GST (multiplying factor 0.1405) on "X"				13.57
	TOTAL				110.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.52
	Total				126.67 Z
	Add Cess @ 1% on "Z"				1.27
	Cost of 3.00 metres of periphery				127.93
	Cost of 1.00 metre of periphery				42.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				42.65
12.10	Extra for circular cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated/ semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.				
	Details of cost for 4 holes of 0.72 metric diameter i.e. 9.05 metric periphery				
	LABOUR				
0014	Carpenter 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				796.83 W
	Add 1 % Water charges on "W"				7.97
	TOTAL				804.80 X
	Add GST (multiplying factor 0.1405) on "X"				113.07
	TOTAL				917.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				137.68
	Total				1055.55 Z
	Add Cess @ 1% on "Z"				10.56
	Cost of 9.05 metres of periphery				1066.11
	Cost of 1.00 metre of periphery				117.80
	Say				117.80
12.11	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.				
	Details of cost for 30 metres				
	Extra for providing and fixing wind ties of 40x6mm flat iron section.				
	M.S. flat 40x6mm = 30 metres+ wastage @				
	5% = 1.5 metres				
	= 31.50 metres @ 1.9 Kg per metre				
	= 59.85 Kg. = 0.5985 quintal				
1008	Flats upto 10 mm in thickness	quintal	0.5985	4500.00	2693.25
2205	Carriage of Steel	tonne	0.06	94.34	5.66
9999	Sundries	L.S.	20.67	2.00	41.34
0012	Blacksmith 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				3138.67 W
	Add 1 % Water charges on "W"				31.39
	TOTAL				3170.05 X
	Add GST (multiplying factor 0.1405) on "X"				445.39
	TOTAL				3615.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				542.32
	Total				4157.76 Z
	Add Cess @ 1% on "Z"				41.58
	Cost of 30.00 metres				4199.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 metre				139.98
	Say				140.00
12.12	Providing and fixing ridges and hips in fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.				
12.12.1	Corrugated serrated adjustable ridges				
	Details of cost for length of ridge 20.2 metres				
	One piece corrugated serrated adjustable ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre				
	MATERIAL				
	Ridge piece required each of 1.22mm length = 19 nos. +				
	Add 5% wastage = 0.95 No.				
	Nos x 1.22 = 24.339 metre				
225	Organic fibres and/or inorganic synthetic fibres roofing	metre	24.339	210.00	5111.19
9977	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	2.00	27.04
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				0.00
0030	Mistry	day	0.14	476.00	66.64
0015	Carpenter 2nd class	day	0.55	374.50	205.98
0017	Beldar	day	1.64	320.83	526.16
	TOTAL				5950.53 W
	Add 1 % Water charges on "W"				59.51
	TOTAL				6010.03 X
	Add GST (multiplying factor 0.1405) on "X"				844.41
	TOTAL				6854.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				1028.17
	Total				7882.61 Z
	Add Cess @ 1% on "Z"				78.83
	Cost of 20.20 metre				7961.43
	Cost of 1.00 metre				394.13
	Say				394.15

12.12.2 Plain wing adjustable ridges

Details of cost for length of ridge 20.20 metres

Plain wing adjustable ridges

Consider a shed of 20x10m (external dimensions at plinth).

Length of ridges 20.2 metre

MATERIAL

Ridge piece required each of 1.22m length

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 19 nos. + Add 5% wastage = 0.95 No. nos x 1.22 = 24.339 metre				
226	Non - Asbestos fibre (high impact poly propylene reinforced) cement plain wing adjustable ridge.	metre	24.339	210.00	5111.19
9977	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	2.00	27.04
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0030	Mistry	day	0.14	476.00	66.64
0015	Carpenter 2nd class	day	0.55	374.50	205.98
0017	Beldar	day	1.64	320.83	526.16
	TOTAL				5950.53 W
	Add 1 % Water charges on "W"				59.51
	TOTAL				6010.03 X
	Add GST (multiplying factor 0.1405) on "X"				844.41
	TOTAL				6854.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				1028.17
	Total				7882.61 Z
	Add Cess @ 1% on "Z"				78.83
	Cost of 20.20 metre				7961.43
	Cost of 1.00 metre				394.13
	Say				394.15
12.12.3	Close fitting adjustable ridges				
	Details of cost for length of ridge 20.2 metres Close fitting adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre No. of ridge pairs required, of length 1.22m each = 22.00 nos. + Add 5% wastage = 1.10 Nos. = 23.10 nos.x 1.22= 28.182 metre				
224	Non - Asbestos fibre (high impact poly propylene reinforced) cement close fitting adjustable ridge.	metre	28.182	210.00	5918.22
9977	Carriage	L.S.	16.12	2.00	32.24
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0030	Mistry	day	0.14	476.00	66.64
0015	Carpenter 2nd class	day	0.55	374.50	205.98
0017	Beldar	day	1.64	320.83	526.16
	TOTAL				6763.54 W
	Add 1 % Water charges on "W"				67.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6831.17 X
	Add GST (multiplying factor 0.1405) on "X"				959.78
	TOTAL				7790.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				1168.64
	Total				8959.59 Z
	Add Cess @ 1% on "Z"				89.60
	Cost of 20.20 metre				9049.19
	Cost of 1.00 metre				447.98
	Say				448.00

12.12.4 Unserrated adjustable hips

Details of cost for a shed with hip as
20.2 metres
Unserrated adjustable hips
Consider a shed with hip as 20.2 metres
No. of hi pieces required = 19 pairs
Length of each pair 1.22 metres
Add 5 % wastage
= 0.95 pairs
= 19.95 pairs x 1.22 = 24.339 metre

227	Non - Asbestos fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips.	metre	24.339	210.00	5111.19
9977	Carriage	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	6.63	2.00	13.26
	LABOUR				
0030	Mistry	day	0.14	476.00	66.64
0015	Carpenter 2nd class	day	0.55	374.50	205.98
0017	Beldar	day	1.64	320.83	526.16
	TOTAL				5936.75 W
	Add 1 % Water charges on "W"				59.37
	TOTAL				5996.11 X
	Add GST (multiplying factor 0.1405) on "X"				842.45
	TOTAL				6838.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				1025.79
	Total				7864.35 Z
	Add Cess @ 1% on "Z"				78.64
	Cost of 20.20 metre				7943.00
	Cost of 1.00 metre				393.22
	Say				393.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.13	Providing and fixing fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:				
12.13.1	Corrugated apron pieces				
	Details for shed of 20.2 metres completed length				
	MATERIAL				
	Corrugated apron pieces of 1.12 metre length = 20 nos.+ Add 5% wastage = 1.0 No. Total = 21 nos.x 1.12=23.52 metre				
228	Organic fibres and/or inorganic synthetic fibres roofing accessories apron piece.	metre	23.52	200.00	4704.00
9977	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	2.00	6.50
9999	Sundries	L.S.	3.25	2.00	6.50
	LABOUR				
0030	Mistry	day	0.07	476.00	33.32
0015	Carpenter 2nd class	day	0.28	374.50	104.86
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				5118.26 W
	Add 1 % Water charges on "W"				51.18
	TOTAL				5169.44 X
	Add GST (multiplying factor 0.1405) on "X"				726.31
	TOTAL				5895.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				884.36
	Total				6780.11 Z
	Add Cess @ 1% on "Z"				67.80
	Cost of 20.20 metre				6847.91
	Cost of 1.00 metre				339.01
	Say				339.00
12.13.2	Eave's filler pieces				
	Details of eaves filler for a shed of 20.2 metres complete length				
	MATERIAL				
	Organic fibres and/or inorganic synthetic fibres roofing filler pieces of 0.16 metres length = 20 nos.+ Add 5% wastage = 1.0 No. Total = 21 nos.				
229	Non - Asbestos fibre (high impact poly propylene reinforced) cement eaves filler piece.	each	21.00	175.00	3675.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	The eaves filler pieces are to be fixed with the same hooks as the sheets	L.S.	3.25	2.00	6.50
9999	Sundries	L.S.	3.25	2.00	6.50
	LABOUR				
0030	Mistry	day	0.07	476.00	33.32
0015	Carpenter 2nd class	day	0.28	374.50	104.86
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				4089.26 W
	Add 1 % Water charges on "W"				40.89
	TOTAL				4130.15 X
	Add GST (multiplying factor 0.1405) on "X"				580.29
	TOTAL				4710.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				706.57
	Total				5417.01 Z
	Add Cess @ 1% on "Z"				54.17
	Cost of 20.20 metre				5471.18
	Cost of 1.00 metre				270.85
	Say				270.85

12.13.3 North light curves

Details of North light curve 20.2 metres long complete length

MATERIAL

North light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No.

= 21 nos.x 1.016 = 21.336 metre

230	Organic fibres and/or inorganic synthetic fibres roofing cement north light curves.	metre	21.336	280.00	5974.08
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.00	19.76
9999	Sundries	L.S.	6.24	2.00	12.48
	LABOUR				
0030	Mistry	day	0.10	476.00	47.60
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				6993.10 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				69.93
	TOTAL				7063.03 X
	Add GST (multiplying factor 0.1405) on "X"				992.36
	TOTAL				8055.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				1208.31
	Total				9263.69 Z
	Add Cess @ 1% on "Z"				92.64
	Cost of 20.20 metre				9356.33
	Cost of 1.00 metre				463.18
	Say				463.20

12.13.4 Ventilator curves

Details of ventilator curve 20.2 metres long complete length

MATERIAL

North light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No.

Total = 21 nos.x 1.016 = 21.336 metre

231	Organic fibres and/or inorganic synthetic fibres roofing cement ventilator curves.	each	21.336	310.00	6614.16
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.00	19.76
9999	Sundries	L.S.	6.24	2.00	12.48
	LABOUR				
0030	Mistry	day	0.10	476.00	47.60
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				7633.18 W
	Add 1 % Water charges on "W"				76.33
	TOTAL				7709.51 X
	Add GST (multiplying factor 0.1405) on "X"				1083.19
	TOTAL				8792.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				1318.90
	Total				10111.60 Z
	Add Cess @ 1% on "Z"				101.12
	Cost of 20.20 metre				10212.72
	Cost of 1.00 metre				505.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				505.60
12.13.5	Barge boards				
	Details of cost for 9.70 metres				
	Completed length of barge boards				
	MATERIAL				
	Barge boards 2.50metres = 4 nos. x 2.50				
	= 10.00 metre				
	Add 5% wastage = 0.50 metre.				
	Total = 10.50 metre.				
232	Organic fibres and/or inorganic synthetic fibres roofing cement barge boards 6 mm thick.	metre	10.50	400.00	4200.00
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	0.50	10.00	5.00
1211	G.I. plain washer for seam bolts	100 Nos	0.10	32.00	3.20
1208	Bitumen washer	100 Nos	0.05	30.00	1.50
9977	Carriage of barge boards, bolts, nuts and washers	L.S.	9.36	2.00	18.72
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0030	Mistry	day	0.04	476.00	19.04
0015	Carpenter 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	0.40	320.83	128.33
	TOTAL				4411.78 W
	Add 1 % Water charges on "W"				44.12
	TOTAL				4455.90 X
	Add GST (multiplying factor 0.1405) on "X"				626.05
	TOTAL				5081.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				762.29
	Total				5844.25 Z
	Add Cess @ 1% on "Z"				58.44
	Cost of 9.70 metre				5902.69
	Cost of 1.00 metre				608.52
	Say				608.50
12.13.6	Ridge finials				
	Details of a pair of ridge final				
	MATERIAL				
	Ridge final = pair				
	Add 5% wastage = 0.05pair. Total = 1.05 pair				
233	Organic fibres and/or inorganic synthetic fibres roofing cement ridge finial .	pair	1.05	165.00	173.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage, sundries, fixing charges including providing and fixing, seam bolts and nuts, with G.I. and bitumen washers	L.S.	10.79	2.00	21.58
	TOTAL				194.83 W
	Add 1 % Water charges on "W"				1.95
	TOTAL				196.78 X
	Add GST (multiplying factor 0.1405) on "X"				27.65
	TOTAL				224.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.66
	Total				258.09 Z
	Add Cess @ 1% on "Z"				2.58
	Cost of 1.00 pair				260.67
	Say				260.65

12.13.7 Special north light curves

	Details of special north light ventilator curve 20.2 metres long complete length MATERIAL Special north light curves of 1.016 metres nominal length = 20 nos. + Add 5% wastage = 1.0 No. Total = 21 nos.				
234	Organic fibres and/or inorganic synthetic fibres roofing cement special north light curves.	each	21.00	555.00	11655.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.00	19.76
9999	Sundries	L.S.	6.24	2.00	12.48
	LABOUR				
0030	Mistry	day	0.10	476.00	47.60
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				12674.02 W
	Add 1 % Water charges on "W"				126.74
	TOTAL				12800.76 X
	Add GST (multiplying factor 0.1405) on "X"				1798.51
	TOTAL				14599.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				2189.89
	Total				16789.16 Z
	Add Cess @ 1% on "Z"				167.89
	Cost of 20 nos				16957.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 no				847.85
	Say				847.85
12.13.8	S type louvers				
	Details of cost for 8.74 metres				
	MATERIAL				
	S type louvers = 5 nos.+ Add 5% wastage = 0.25 nos. Total = 5.25 nos.				
235	Organic fibres and/or inorganic synthetic fibres	each	5.25	260.00	1365.00
9977	roofing cement S type louvers. Carriage	L.S.	10.79	2.00	21.58
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4	each	6.00	20.00	120.00
1032	galvanised steel nuts Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.00	6.00	36.00
1208	Bitumen washer	100 Nos	0.18	30.00	5.40
1210	G.I. plain washer thin	100 Nos	0.36	21.00	7.56
9977	Carriage of bolts and nuts and washers	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	13.39	2.00	26.78
	LABOUR				
0014	Carpenter 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
0012	Blacksmith 1st class	day	0.12	476.00	57.12
	TOTAL				2441.73 W
	Add 1 % Water charges on "W"				24.42
	TOTAL				2466.15 X
	Add GST (multiplying factor 0.1405) on "X"				346.49
	TOTAL				2812.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				421.90
	Total				3234.54 Z
	Add Cess @ 1% on "Z"				32.35
	Cost of 8.74 metres				3266.88
	Cost of 1.00 metre				373.79
	Say				373.80
12.14	Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing G.S. sheets gutters with purlins.				
	Detail of cost for 20 metres				
	MATERIAL				
	Flat 50x3mm size				
1008	Flats upto 10 mm in thickness	quintal	0.1163	4500.00	523.35
1025	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	3.80	10.00	38.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1210	G.I. plain washer thin	100 Nos	0.19	21.00	3.99
9999	Sundries	L.S.	1.04	2.00	2.08
0012	Blacksmith 1st class	day	0.38	476.00	180.88
0017	Beldar	day	0.38	320.83	121.92
	TOTAL				870.22 W
	Add 1 % Water charges on "W"				8.70
	TOTAL				878.92 X
	Add GST (multiplying factor 0.1405) on "X"				123.49
	TOTAL				1002.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				150.36
	Total				1152.77 Z
	Add Cess @ 1% on "Z"				11.53
	Cost of 20.00 metres				1164.29
	Cost of 1.00 metre				58.21
	Say				58.20
12.15	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cum per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :				
12.15.1	With residual type petroleum bitumen of grade VG -10				
	Details of cost for 10 Sqm.				
	MATERIAL				
	Bitumen 80/100				
309	Paving bitumen VG-10 of approved quality	tonne	0.017	25614.00	435.44
771	Kerosene oil	litre	1.22	50.00	61.00
370	Coal (steam)	quintal	0.035	440.00	15.40
2211	Carriage of Tar bitumen	tonne	0.017	106.13	1.80
982	Coarse sand	cum	0.06	1350.00	81.00
2203	Carriage of Coarse sand	cum	0.06	106.13	6.37
	LABOUR				
0017	Beldar	day	0.38	320.83	121.92
	(for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof				
0031	Painter	day	0.15	374.50	56.18
9999	Sundries (Brushes and T and P)	L.S.	13.52	2.00	27.04
	TOTAL				806.14 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				8.06
	TOTAL				814.20 X
	Add GST (multiplying factor 0.1405) on "X"				114.40
	TOTAL				928.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				139.29
	Total				1067.89 Z
	Add Cess @ 1% on "Z"				10.68
	Cost of 10.00 sqm.				1078.57
	Cost of 1 Sqm.				107.86
	Say				107.85
12.16	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat:				
12.16.1	With common burnt clay F.P.S.(non modular) brick tile of class designation 10				
	Details of cost for (mud) 10.00sqm.				
	MATERIAL				
	Mud Phuska = 1.048 cum. + Wastage 20% = 0.209 = 1.257 cum.				
811	Mud (dry)	cum	1.257	165.00	207.41
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.263	494.30	130.00
	Bhusa 0.263x35 = 9.20 + 5% wastage = 0.46 Total = 9.66 Kg. say 10 kg = 0.1 q				
308	Bhusa	quintal	0.10	500.00	50.00
9999	Cowdung	L.S.	5.33	2.00	10.66
9999	Mud mortar for gobri leaping	L.S.	8.06	2.00	16.12
9977	Carriage of bhusa and cowdung Tile bricks 22.9x11.4x4.4cm of designation 100	L.S.	2.73	2.00	5.46
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.38	4500.00	1710.00
2207	Carriage of Brick tiles	1000 Nos	0.38	169.81	64.53
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	3988.00	243.27
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	35.00	0.21
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.30	374.50	486.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	3.75	320.83	1203.11
0011	Bhisti	day	1.10	320.83	352.91
	TOTAL				4494.05 W
	Add 1 % Water charges on "W"				44.94
	TOTAL				4538.99 X
	Add GST (multiplying factor 0.1405) on "X"				637.73
	TOTAL				5176.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				776.51
	Total				5953.22 Z
	Add Cess @ 1% on "Z"				59.53
	Cost of 10.00 sqm.				6012.76
	Cost of 1 Sqm.				601.28
	Say				601.30
12.17	10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusha @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.				
12.17.1	With machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation 12.5, conforming to IS 2690				
	Details of cost for (mud) 10.00sqm.				
	MATERIAL				
	Mud Phuska = 1.048 cum. Wastage 20% = 0.209 = 1.257 cum.				
811	Mud (dry)	cum	1.257	165.00	207.41
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.263	494.30	130.00
	Bhusa 0.263x35 = 9.20				
	5% wastage = 0.46				
	Total = 9.66 Kg. say 10 kg = 0.1 q				
308	Bhusa	quintal	0.10	500.00	50.00
9999	Cowdung	L.S.	5.33	2.00	10.66
9999	Mud mortar for gobri leaping	L.S.	8.06	2.00	16.12
9977	Carriage of bhusa and cowdung	L.S.	2.73	2.00	5.46
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	0.38	4900.00	1862.00
2207	Carriage of Brick tiles	1000 Nos	0.38	169.81	64.53
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	3988.00	243.27
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	35.00	0.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.30	374.50	486.85
0017	Beldar	day	3.75	320.83	1203.11
0011	Bhisti	day	1.10	320.83	352.91
	TOTAL				4646.05 W
	Add 1 % Water charges on "W"				46.46
	TOTAL				4692.51 X
	Add GST (multiplying factor 0.1405) on "X"				659.30
	TOTAL				5351.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				802.77
	Total				6154.58 Z
	Add Cess @ 1% on "Z"				61.55
	Cost of 10.00 sqm.				6216.12
	Cost of 1 Sqm.				621.61
	Say				621.60

12.18 Extra for every additional 1 cm thickness of mud phaska.

Detail of cost for 10 sqm

MATERIAL

For 10 cm thickness

Mud Phuska = 1.048 cum. + Wastage 20% =

0.209 = 1.257 cum.

Quantity for 1 cm thickness 1.257/10

= 0.1257 cum say 0.13 cum

811	Mud (dry)	cum	0.13	165.00	21.45
0017	Beldar	day	0.07	320.83	22.46
0011	Bhisti	day	0.04	320.83	12.83
9999	Labour for leaping and carring to roof	L.S.	26.91	2.00	53.82
	TOTAL				110.56 W
	Add 1 % Water charges on "W"				1.11
	TOTAL				111.67 X
	Add GST (multiplying factor 0.1405) on "X"				15.69
	TOTAL				127.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.10
	Total				146.46 Z
	Add Cess @ 1% on "Z"				1.46
	Cost of 10.00 sqm.				147.92
	Cost of 1 Sqm.				14.79
	Say				14.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.19	Providing and laying brick tiles over mummy roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:				
12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10				
	Details of cost for 10 sqm.				
	MATERIAL				
1984	Common burnt clay F.P.S. (non modular) bricks tile class designation 10	1000 Nos	0.38	4500.00	1710.00
2207	Carriage of Brick tiles	1000 Nos	0.38	169.81	64.53
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.179	3988.00	713.85
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.005	35.00	0.18
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.81	374.50	303.35
0018	Coolie	day	1.08	320.83	346.50
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				3228.66 W
	Add 1 % Water charges on "W"				32.29
	TOTAL				3260.95 X
	Add GST (multiplying factor 0.1405) on "X"				458.16
	TOTAL				3719.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				557.87
	Total				4276.98 Z
	Add Cess @ 1% on "Z"				42.77
	Cost of 10.00 sqm.				4319.75
	Cost of 1 Sqm.				431.97
	Say				431.95
12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.				
	Details of cost for 10 sqm.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7266	Pressed clay tiles 20 mm thick 250 x 250 mm size	1000 Nos	0.16	8600.00	1376.00
2207	Carriage of Brick tiles	1000 Nos	0.16	169.81	27.17
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.037	3815.05	141.16
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.01	35.00	0.35
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0017	Beldar	day	2.60	320.83	834.16
9999	Sundries	L.S.	13.00	2.00	26.00
	TOTAL				3545.00 W
	Add 1 % Water charges on "W"				35.45
	TOTAL				3580.45 X
	Add GST (multiplying factor 0.1405) on "X"				503.05
	TOTAL				4083.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				612.53
	Total				4696.04 Z
	Add Cess @ 1% on "Z"				46.96
	Cost of 10.00 sqm.				4743.00
	Cost of 1 Sqm.				474.30
	Say				474.30
12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
12.21.1	In 75x75 mm deep chase				
	Details of cost for 10 metres cement concrete				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0836	1350.00	112.86
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0836	106.13	8.87
982	Coarse sand	cum	0.0418	1350.00	56.43
2203	Carriage of Coarse sand	cum	0.0418	106.13	4.44
367	Portland Cement (OPC-43 grade)	tonne	0.03	4940.00	148.20
2209	Carriage of Cement	tonne	0.03	94.34	2.83
0017	Beldar	day	0.085	320.83	27.27
0018	Coolie	day	0.056	320.83	17.97

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.025	320.83	8.02
0023	Mason (brick layer) 1st class	day	0.005	476.00	2.38
0024	Mason (brick layer) 2nd class	day	0.005	374.50	1.87
0028	Mate	day	0.0037	320.83	1.19
9999	Hire and running charge of mechanical mixer	L.S.	2.47	2.00	4.94
9999	Sundries	L.S.	1.3	2.00	2.60
0023	Mason (brick layer) 1st class	day	0.15	476.00	71.40
0024	Mason (brick layer) 2nd class	day	0.15	374.50	56.18
9999	Sundries	L.S.	5.07	2.00	10.14
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00
0024	Mason (brick layer) 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	1	320.83	320.83
9977	Carriage	L.S.	8.06	2.00	16.12
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.009	3988.00	35.89
0040	Mason (average)	day	0.081	374.50	30.33
0018	Coolie	day	0.101	320.83	32.40
0011	Bhisti	day	0.033	320.83	10.59
9999	Hire and running charges of mechanical mixer	L.S.	1.69	2.00	3.38
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				1202.61 W
	Add 1 % Water charges on "W"				12.03
	TOTAL				1214.64 X
	Add GST (multiplying factor 0.1405) on "X"				170.66
	TOTAL				1385.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				207.79
	Total				1593.09 Z
	Add Cess @ 1% on "Z"				15.93
	Cost of 10.00 sqm.				1609.02
	Cost of 1 Sqm.				160.90
	Say				160.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.				
	Details of cost for 1 no.				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0067	1350.00	9.05
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0022	1350.00	2.97
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0089	106.13	0.94
982	Coarse sand	cum	0.0044	1350.00	5.94
2203	Carriage of Coarse sand	cum	0.0044	106.13	0.47
367	Portland Cement (OPC-43 grade)	tonne	0.0032	4940.00	15.81
2209	Carriage of Cement	tonne	0.0032	94.34	0.30
0017	Beldar	day	0.009	320.83	2.89
0018	Coolie	day	0.006	320.83	1.92
0011	Bhisti	day	0.0027	320.83	0.87
0023	Mason (brick layer) 1st class	day	0.0005	476.00	0.24
0024	Mason (brick layer) 2nd class	day	0.0005	374.50	0.19
0028	Mate	day	0.0004	320.83	0.13
9999	Hire and running charge of mechanical mixer	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
3002	Polyvinyle chloride sheet 400 micron thick Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	1.00	40.00	40.00
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0041	4469.50	18.32
0040	Mason (average)	day	0.0235	374.50	8.80
0018	Coolie	day	0.0235	320.83	7.54
0011	Bhisti	day	0.0078	320.83	2.50
9999	Sundries	L.S.	0.39	2.00	0.78
367	Portland Cement (OPC-43 grade)	tonne	0.0006	4940.00	2.96
2209	Carriage of Cement	tonne	0.0006	94.34	0.06
0040	Mason (average)	day	0.008	374.50	3.00
0018	Coolie	day	0.008	320.83	2.57
9999	Rounding of edges and making outlet	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				156.58 W
	Add 1 % Water charges on "W"				1.57
	TOTAL				158.15 X
	Add GST (multiplying factor 0.1405) on "X"				22.22
	TOTAL				180.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				207.42 Z
	Add Cess @ 1% on "Z"				2.07
	Cost of 1 no.				209.49
	Say				209.50
12.23	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete :				
12.23.1	Red sand stone slab				
12.23.1.1	40 to 50 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
1174	Red sand stone slab 45 mm and 50 mm thick (un-dressed) including wastage @ 10% = 11 sqm	sqm	11.00	225	2475.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	1.27	92.24	117.14
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of	cum	0.0095	3815.05	36.24
	SH: Mortars				
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of	cum	0.0075	3988.00	29.91
	SH: Mortars				
	LABOUR				
0040	Mason (average)	day	1.52	374.50	569.24
0010	Bandhani	day	1.82	320.83	583.91
0018	Coolie	day	1.52	320.83	487.66
0011	Bhisti	day	0.30	320.83	96.25
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				4427.60 W
	Add 1 % Water charges on "W"				44.28
	TOTAL				4471.87 X
	Add GST (multiplying factor 0.1405) on "X"				628.30
	TOTAL				5100.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				765.03
	Total				5865.20 Z
	Add Cess @ 1% on "Z"				58.65
	Cost of 10.00 sqm.				5923.85
	Cost of 1 Sqm.				592.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				592.40
12.23.2	White sand stone slab				
12.23.2.1	40 to 50 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
1175	White sand stone slab 45 mm and 50 mm thick (un-dressed) including wastage @ 10% = 11sqm	sqm	11.00	240.00	2640.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	1.27	94.34	119.81
3.9	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	3815.05	36.24
	LABOUR				
0040	Mason (average)	day	1.52	374.50	569.24
0010	Bandhani	day	1.82	320.83	583.91
0018	Coolie	day	1.52	320.83	487.66
0011	Bhisti	day	0.30	320.83	96.25
9999	Sundries	L.S.	16.12	2.00	32.24
	Cement mortar for grouting 1:3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3988.00	29.91
	TOTAL				4595.26 W
	Add 1 % Water charges on "W"				45.95
	TOTAL				4641.22 X
	Add GST (multiplying factor 0.1405) on "X"				652.09
	TOTAL				5293.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				794.00
	Total				6087.30 Z
	Add Cess @ 1% on "Z"				60.87
	Cost of 10.00 sqm.				6148.18
	Cost of 1 Sqm.				614.82
	Say				614.80

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :

12.24.1 Natural colour insulating board

12.24.1.1 12 mm thick

Details of cost for 10 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
332	Natural colour insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	210.00	2310.00
9977	Carriage of material	L.S.	17.55	2.00	35.10
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				4354.86 W
	Add 1 % Water charges on "W"				43.55
	TOTAL				4398.41 X
	Add GST (multiplying factor 0.1405) on "X"				617.98
	TOTAL				5016.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				752.46
	Total				5768.84 Z
	Add Cess @ 1% on "Z"				57.69
	Cost of 10.00 sqm.				5826.53
	Cost of 1 Sqm.				582.65
	Say				582.65

12.24.2 White face insulating board

12.24.2.1 12 mm thick

Details of cost for 10 sqm.

MATERIAL

328	White face insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	235.00	2585.00
9977	Carriage of material	L.S.	17.55	2.00	35.10
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				4629.86 W
	Add 1 % Water charges on "W"				46.30
	TOTAL				4676.16 X
	Add GST (multiplying factor 0.1405) on "X"				657.00
	TOTAL				5333.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				799.97
	Total				6133.13 Z
	Add Cess @ 1% on "Z"				61.33
	Cost of 10.00 sqm.				6194.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 Sqm.				619.45
	Say				619.45
12.24.3	Flame retardant face insulating board				
12.24.3.1	12 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
336	Flame retardent face insulating board: 12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	320.00	3520.00
9977	Carriage of material	L.S.	17.55	2.00	35.10
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				5564.86 W
	Add 1 % Water charges on "W"				55.65
	TOTAL				5620.51 X
	Add GST (multiplying factor 0.1405) on "X"				789.68
	TOTAL				6410.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				961.53
	Total				7371.72 Z
	Add Cess @ 1% on "Z"				73.72
	Cost of 10.00 sqm.				7445.44
	Cost of 1 Sqm.				744.54
	Say				744.55
12.25	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately):				
12.25.1	12 mm thick				
	Details of cost for 10 sqm.				
	MATERIAL				
341	Flat pressed 3 layer particle board (medium density) Grade I :12 mm thick including 10% wastage = 11.00 sqm	sqm	11.000	288.00	3168.00
9977	Carriage	L.S.	14.95	2.00	29.90
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				5207.66 W
	Add 1 % Water charges on "W"				52.08
	TOTAL				5259.74 X
	Add GST (multiplying factor 0.1405) on "X"				738.99
	TOTAL				5998.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				899.81
	Total				6898.54 Z
	Add Cess @ 1% on "Z"				68.99
	Cost of 10.00 sqm.				6967.52
	Cost of 1 Sqm.				696.75
	Say				696.75
12.26	Providing and fixing plain multipurpose cement board(Hight pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid seperately).				
12.26.1	6 mm thick Cement fiber board as per IS: 14862				
	Details of cost for 10 sqm.				
	MATERIAL				
236	plain multipurpose cement board(Hight pressure steam cured) cement board 6mm thick. including 10% wastage = 11.00 sqm	sqm	11.00	210.00	2310.00
9977	Carriage	L.S.	14.95	2.00	29.90
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				4349.66 W
	Add 1 % Water charges on "W"				43.50
	TOTAL				4393.16 X
	Add GST (multiplying factor 0.1405) on "X"				617.24
	TOTAL				5010.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				751.56
	Total				5761.95 Z
	Add Cess @ 1% on "Z"				57.62
	Cost of 10.00 sqm.				5819.57
	Cost of 1 Sqm.				581.96
	Say				581.95
12.26.2	6 mm thick Cement bonded wood particle board as per IS:14276				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL				
242	6 mm thick multi purpose cement bonded wood particle board 10.00 sqm + 1.00 sqm (Add wastage 10%) Total = 11.00 sqm	sqm	11.00	195.00	2145.00
9977	Carriage	L.S.	14.95	2.00	29.90
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				4184.66 W
	Add 1 % Water charges on "W"				41.85
	TOTAL				4226.51 X
	Add GST (multiplying factor 0.1405) on "X"				593.82
	TOTAL				4820.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				723.05
	Total				5543.38 Z
	Add Cess @ 1% on "Z"				55.43
	Cost of 10.00 sqm.				5598.81
	Cost of 1 Sqm.				559.88
	Say				559.90

12.27 Extra for Circular cutting including wastages in ceiling with:

12.27.1 2nd class teak wood planks 20 mm thick

	Details of cost for 10 holes of 0.5m dia each (15.71m)				
	MATERIAL				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$ Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.} +$ Wastage @ 10% = 0.19 sqm. = 2.15 sqm x 20mm = 0.043 cum				
1190	Second class teak wood in planks	10 cudm	4.30	791.00	3401.30
2204	Carriage of Timber	cum	0.041	121.29	4.97
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.31	60.00	18.60
	LABOUR				
0014	Carpenter 1st class	day	2.65	476.00	1261.40
0015	Carpenter 2nd class	day	0.145	374.50	54.30
0017	Beldar	day	2.79	320.83	895.12
9999	Scaffolding	L.S.	7.80	2.00	15.60
9999	Sundries	L.S.	14.69	2.00	29.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5680.67 W
	Add 1 % Water charges on "W"				56.81
	TOTAL				5737.48 X
	Add GST (multiplying factor 0.1405) on "X"				806.12
	TOTAL				6543.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				981.54
	Total				7525.13 Z
	Add Cess @ 1% on "Z"				75.25
	Cost of 15.71 metre				7600.38
	Cost of 1.00 metre				483.79
	Say				483.80
12.27.2	Natural colour insulating board				
12.27.2.1	12 mm thick				
	Details of cost for 10 holes of 0.5m dia each				
	Details of cost for 15.71 metre				
	MATERIAL				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm.				
332	Natural colour insulating board:12 mm thick	sqm	2.15	210.00	451.50
9977	Carriage	L.S.	3.38	2.00	6.76
9999	Nails	L.S.	5.33	2.00	10.66
	LABOUR				
0014	Carpenter 1st class	day	0.49	476.00	233.24
0017	Beldar	day	0.39	320.83	125.12
9999	Scaffolding	L.S.	6.11	2.00	12.22
9999	Sundries	L.S.	6.11	2.00	12.22
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.50	320.83	802.08
9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				2865.38 W
	Add 1 % Water charges on "W"				28.65
	TOTAL				2894.03 X
	Add GST (multiplying factor 0.1405) on "X"				406.61
	TOTAL				3300.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				495.10
	Total				3795.74 Z
	Add Cess @ 1% on "Z"				37.96
	Cost of 15.71 metre				3833.70
	Cost of 1.00 metre				244.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				244.05
12.27.3	White face insulating board:				
12.27.3.1	12 mm thick				
	Details of cost for 15.71 metre				
	MATERIAL				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm.				
328	White face insulating board:12 mm thick	sqm	2.15	235.00	505.25
9977	Carriage	L.S.	3.38	2.00	6.76
9999	Nails	L.S.	5.33	2.00	10.66
	LABOUR				
0014	Carpenter 1st class	day	0.49	476.00	233.24
0017	Beldar	day	0.39	320.83	125.12
9999	Scaffolding	L.S.	6.11	2.00	12.22
9999	Sundries	L.S.	6.11	2.00	12.22
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.50	320.83	802.08
9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				2919.13 W
	Add 1 % Water charges on "W"				29.19
	TOTAL				2948.32 X
	Add GST (multiplying factor 0.1405) on "X"				414.24
	TOTAL				3362.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				504.38
	Total				3866.94 Z
	Add Cess @ 1% on "Z"				38.67
	Cost of 15.71 metre				3905.61
	Cost of 1.00 metre				248.61
	Say				248.60

12.27.4 Flame retardant face insulating board:

12.27.4.1 12 mm thick

Details of cost for 15.71 metre

MATERIAL

0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$

Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +

Wastage @ 10% = 0.19 sqm.

Total = 2.15 sqm.

336	Flame retardent face insulating board: 12 mm thick	sqm	2.15	320.00	688.00
9977	Carriage	L.S.	3.38	2.00	6.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Nails	L.S.	5.33	2.00	10.66
	LABOUR				
0014	Carpenter 1st class	day	0.49	476.00	233.24
0017	Beldar	day	0.39	320.83	125.12
9999	Scaffolding	L.S.	6.11	2.00	12.22
9999	Sundries	L.S.	6.11	2.00	12.22
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.50	320.83	802.08
9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				3101.88 W
	Add 1 % Water charges on "W"				31.02
	TOTAL				3132.90 X
	Add GST (multiplying factor 0.1405) on "X"				440.17
	TOTAL				3573.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				535.96
	Total				4109.03 Z
	Add Cess @ 1% on "Z"				41.09
	Cost of 15.71 metre				4150.12
	Cost of 1.00 metre				264.17
	Say				264.15

12.27.5 Standard quality hard board sheet:

12.27.5.1 3 mm thick

Details of cost for 15.71 metre

MATERIAL

0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$

Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.} +$

Wastage @ 10% = 0.19 sqm.

Total = 2.15 sqm.

994	Standard quality hard board sheet 3 mm thick	sqm	2.15	135.00	290.25
9977	Carriage	L.S.	2.73	2.00	5.46
9999	Nails	L.S.	5.33	2.00	10.66
	LABOUR				
0014	Carpenter 1st class	day	0.49	476.00	233.24
0017	Beldar	day	0.39	320.83	125.12
9999	Scaffolding	L.S.	6.11	2.00	12.22
9999	Sundries	L.S.	6.11	2.00	12.22
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.50	320.83	802.08
9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				2702.83 W
	Add 1 % Water charges on "W"				27.03
	TOTAL				2729.86 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				383.54
	TOTAL				3113.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				467.01
	Total				3580.41 Z
	Add Cess @ 1% on "Z"				35.80
	Cost of 15.71 metre				3616.22
	Cost of 1.00 metre				230.19
	Say				230.20

12.27.5.2 4.5 mm thick

Details of cost for 15.71 metre

MATERIAL

0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$

Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.} +$

Wastage @ 10% = 0.19 sqm.

Total = 2.15 sqm.

996	Standard quality hard board sheet	sqm	2.15	210.00	451.50
	4.5 mm thick				
9977	Carriage	L.S.	2.86	2.00	5.72
9999	Nails	L.S.	5.33	2.00	10.66
	LABOUR				
0014	Carpenter 1st class	day	0.49	476.00	233.24
0017	Beldar	day	0.39	320.83	125.12
9999	Scaffolding	L.S.	6.11	2.00	12.22
9999	Sundries	L.S.	6.11	2.00	12.22
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.50	320.83	802.08
9999	Scaffolding	L.S.	10.79	2.00	21.58
	TOTAL				2864.34 W
	Add 1 % Water charges on "W"				28.64
	TOTAL				2892.98 X
	Add GST (multiplying factor 0.1405) on "X"				406.46
	TOTAL				3299.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				494.92
	Total				3794.36 Z
	Add Cess @ 1% on "Z"				37.94
	Cost of 15.71 metre				3832.31
	Cost of 1.00 metre				243.94
	Say				243.95

12.28 Extra for providing and fixing ceiling to curved surfaces in narrow widths

Details of cost for 10 sqm.

LABOUR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	1.00	476.00	476.00
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				1492.16 W
	Add 1 % Water charges on "W"				14.92
	TOTAL				1507.08 X
	Add GST (multiplying factor 0.1405) on "X"				211.74
	TOTAL				1718.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				257.82
	Total				1976.65 Z
	Add Cess @ 1% on "Z"				19.77
	Cost of 10.00 sqm.				1996.42
	Cost of 1.00 sqm.				199.64
	Say				199.65
12.31	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately):				
12.31.1	Flat surfaces				
	Details of cost for 4.00x2.5=10sqm.				
	MATERIAL				
	Wooden strips of 1st class kail wood 72x40x0.25x0.06 = 43.20 cudm. + Add 10% wastage = 4.32 cudm. Total = 47.52				
1196	First class kail wood in planks	10 cudm	4.752	300.00	1425.60
2204	Carriage of Timber	cum	0.0475	121.29	5.76
1219	Wire nails required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.75	58.00	43.50
	Rabbit wire mesh required for reinforcement =2.5x4 = 10.00sqm.+ Add 2% wastage = 0.20 sqm. Total = 10.2 sqm.				
1220	Wire mesh (rabbit) Plaster of paris - 2.5x4.0x10x1121/1000 = 112.10 kg. Add for plaster of paris joining into the side of the laths- 2.5x4.0x4.0032x1121/1000 = 44.87 kg. Total = 156.97+ Add 40% wastage = 62.79 Total = 219.76 kg	sqm	10.20	42.00	428.40
869	Plaster of Paris	kilogram	219.76	5.00	1098.80
2308	Carriage of Plaster of paris	tonne	0.22	94.34	20.75
9977	Carriage of wiremesh and nails etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	1.60	476.00	761.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.60	320.83	513.33
	For doing plaster of paris over wooden strips				
0022	Mason (for plaster of paris work) 1st class	day	3.23	476.00	1537.48
0017	Beldar	day	3.23	320.83	1036.28
0011	Bhisti	day	0.54	320.83	173.25
9999	Scaffolding	L.S.	83.98	2.00	167.96
9999	Sundries	L.S.	53.82	2.00	107.64
	TOTAL				7325.81 W
	Add 1 % Water charges on "W"				73.26
	TOTAL				7399.07 X
	Add GST (multiplying factor 0.1405) on "X"				1039.57
	TOTAL				8438.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				1265.80
	Total				9704.44 Z
	Add Cess @ 1% on "Z"				97.04
	Cost of 10.00 sqm.				9801.48
	Cost of 1.00 sqm.				980.15
	Say				980.15

12.31.2 Curved surfaces

Details of cost for 4.00x2.5=10sqm.

MATERIAL

Wooden strips of 1st class kail wood
 $72 \times 40 \times 0.25 \times 0.06 = 43.20$ cudm. + Add 10%
wastage = 4.32 cudm. Total = 47.52 cudm

1196	First class kail wood in planks	10 cudm	4.752	300.00	1425.60
2204	Carriage of Timber	cum	0.0475	121.29	5.76
1219	Wire nails required for fixing the laths to frame work including breakage and wastage of nails	kilogram	0.75	58.00	43.50
	Rabbit wire mesh required for reinforcement $= 2.5 \times 4 = 10.00$ sqm.+ Add 2% wastage = 0.20 sqm. Total = 10.2 sqm.				
1220	Wire mesh (rabbit) Plaster of paris - $2.5 \times 4.0 \times 10 \times 1121 / 1000 = 112.10$ kg.	sqm	10.20	42.00	428.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add for plaster of paris joining into the side of the laths- 2.5x4.0x4.0032x1121/1000 = 44.87 kg. Total = 156.97+ Add 40% wastage = 62.79 Total = 219.76 kg				
869	Plaster of Paris	kilogram	219.76	5.00	1098.80
2308	Carriage of Plaster of paris	tonne	0.22	94.34	20.75
9977	Carriage of wiremesh and nails etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	1.60	476.00	761.60
0017	Beldar	day	1.60	320.83	513.33
0022	Mason (for plaster of paris work) 1st class	day	3.23	476.00	1537.48
0017	Beldar	day	3.23	320.83	1036.28
0011	Bhisti	day	0.54	320.83	173.25
9999	Scaffolding	L.S.	83.98	2.00	167.96
9999	Sundries	L.S.	53.82	2.00	107.64
0014	Carpenter 1st class	day	0.50	476.00	238.00
0022	Mason (for plaster of paris work) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				8521.06 W
	Add 1 % Water charges on "W"				85.21
	TOTAL				8606.27 X
	Add GST (multiplying factor 0.1405) on "X"				1209.18
	TOTAL				9815.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				1472.32
	Total				11287.77 Z
	Add Cess @ 1% on "Z"				112.88
	Cost of 10.00 sqm.				11400.64
	Cost of 1.00 sqm.				1140.06
	Say				1140.05

12.32 Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.

Details of cost for 10 sqm.

869	Plaster of Paris	kilogram	109.88	5.00	549.40
2308	Carriage of Plaster of paris	tonne	0.11	94.34	10.38
	LABOUR				
0022	Mason (for plaster of paris work) 1st class	day	2.00	476.00	952.00
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.25	320.83	80.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding and Sundries	L.S.	13.52	2.00	27.04
	TOTAL				2260.68 W
	Add 1 % Water charges on "W"				22.61
	TOTAL				2283.29 X
	Add GST (multiplying factor 0.1405) on "X"				320.80
	TOTAL				2604.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				390.61
	Total				2994.71 Z
	Add Cess @ 1% on "Z"				29.95
	Cost of 10.00 sqm.				3024.66
	Cost of 1.00 sqm.				302.47
	Say				302.45

12.33 Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.

Details of cost for 10sqm/metre height

9999	Scaffolding	L.S.	13.52	2.00	27.04
	LABOUR				
0022	Mason (for plaster of paris work) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
0011	Bhisti	day	0.25	320.83	80.21
	TOTAL				904.08 W
	Add 1 % Water charges on "W"				9.04
	TOTAL				913.12 X
	Add GST (multiplying factor 0.1405) on "X"				128.29
	TOTAL				1041.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				156.21
	Total				1197.62 Z
	Add Cess @ 1% on "Z"				11.98
	Cost of 10.00 sqm.				1209.60
	Cost of 1.00 sqm.				120.96
	Say				120.95

12.34 Providing fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24kg / m3, 50mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire mesh, for top most ceiling of building.

Details of cost for 10.00sqm.

Area for 10.00sqm. (Finished surface)

= 10.00sqm.+

Add 10% for overlappings & wastage =
1.00sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 11.00sqm.				
7232	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	11.00	143.00	1573.00
9999	Sundries including GI wire 20 SWG and Virgin polythene bags 200 gram	L.S.	104.00	2.00	208.00
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.00	2.00	702.00
	LABOUR				
0014	Carpenter 1st class	day	1.00	476.00	476.00
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				3600.66 W
	Add 1 % Water charges on "W"				36.01
	TOTAL				3636.67 X
	Add GST (multiplying factor 0.1405) on "X"				510.95
	TOTAL				4147.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				622.14
	Total				4769.76 Z
	Add Cess @ 1% on "Z"				47.70
	Cost of 10.00 sqm.				4817.46
	Cost of 1.00 sqm.				481.75
	Say				481.75
12.35	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183. Density 16 kg/m³, 50 mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.				
	Details of cost for 10.00sqm.				
	Area for 10.00sqm. (Finished surface)				
	= 10.00sqm.+				
	Add 10% for overlappings & wastage =				
	1.00sqm.				
	Total = 11.00sqm.				
7231	Resin Bonded Glass wool 16 kg/m ³ 50 mm thick	sqm	11.00	100.00	1100.00
9999	Sundries including GI wire 20 SWG and Virgin polythene bags 200 gram	L.S.	52.00	2.00	104.00
	LABOUR				
0014	Carpenter 1st class	Day	0.50	476.00	238.00
0017	Beldar	Day	0.50	320.83	160.42
	TOTAL				1602.42 W
	Add 1 % Water charges on "W"				16.02
	TOTAL				1618.44 X
	Add GST (multiplying factor 0.1405) on "X"				227.39
	TOTAL				1845.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				276.87
	Total				2122.70 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				21.23
	Cost of 10.00 sqm.				2143.93
	Cost of 1.00 sqm.				214.39
	Say				214.40
12.36	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge:				
12.36.1	With Type N - Normal 50 mm thick				
	Details of cost for 10.00sqm.				
	Cost of materials :				
	Expanded Polystyrens 1x10=10.00sqm. + Add				
	wastage 10% = 1.00sqm.				
	Total = 11.00sqm.				
7090	Expanded polystyrene type N- Normal	sqm	11.00	125.00	1375.00
314	Bitumen hot sealing compound : grade A	kilogram	0.25	28.00	7.00
9999	Sundries	L.S.	13.00	2.00	26.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1806.42 W
	Add 1 % Water charges on "W"				18.06
	TOTAL				1824.48 X
	Add GST (multiplying factor 0.1405) on "X"				256.34
	TOTAL				2080.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				312.12
	Total				2392.94 Z
	Add Cess @ 1% on "Z"				23.93
	Cost of 10.00 sqm.				2416.87
	Cost of 1.00 sqm.				241.69
	Say				241.70
12.36.2	With Type SE - Self Extinguishing type 50 mm thick				
	Details of cost for 10.00sqm.				
	Cost of materials :				
	Expanded Polystyrens 1x10=10.00sqm. + Add				
	wastage 10% = 1.00sqm.				
	Total = 11.00sqm.				
7091	Expanded polystyrene type - SE	sqm	11.00	150.00	1650.00
314	Bitumen hot sealing compound : grade A	kilogram	0.25	28.00	7.00
9999	Sundries	L.S.	13.00	2.00	26.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				2081.42 W
	Add 1 % Water charges on "W"				20.81
	TOTAL				2102.23 X
	Add GST (multiplying factor 0.1405) on "X"				295.36
	TOTAL				2397.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				359.64
	Total				2757.23 Z
	Add Cess @ 1% on "Z"				27.57
	Cost of 10.00 sqm.				2784.80
	Cost of 1.00 sqm.				278.48
	Say				278.50
12.37	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).				
12.37.1	Stone ware spout				
	Details of cost for 10 stone ware spout of 60cm long				
	MATERIAL				
3004	Stone ware spouts 100 mm dia 60 cm long	each	10.00	40.00	400.00
9977	CARRIAGE	L.S.	13.52	2.00	27.04
9999	Mortar	L.S.	13.52	2.00	27.04
	Labour for fixing and placing in position				
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				742.87 W
	Add 1 % Water charges on "W"				7.43
	TOTAL				750.30 X
	Add GST (multiplying factor 0.1405) on "X"				105.42
	TOTAL				855.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				128.36
	Total				984.08 Z
	Add Cess @ 1% on "Z"				9.84
	Cost of 10.00 sqm.				993.92
	Cost of 1.00 sqm.				99.39
	Say				99.40
12.38	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.38.1	100 mm diameter				
	Details of cost of 5 nos.				
	MATERIAL				
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe C.C. block 5x0.1x0.1x0.1 = 0.005 cum	each	5.00	30.00	150.00
9977	Carriage of bat clamps	L.S.	2.47	2.00	4.94
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.5	320.83	160.42
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1350.00	4.46
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1350.00	1.49
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0044	106.13	0.47
982	Coarse sand	cum	0.0022	1350.00	2.97
2203	Carriage of Coarse sand	cum	0.0022	106.13	0.23
367	Portland Cement (OPC-43 grade)	tonne	0.0016	4940.00	7.90
2209	Carriage of Cement	tonne	0.0016	94.34	0.15
0017	Beldar	day	0.0045	320.83	1.44
0018	Coolie	day	0.0032	320.83	1.03
0011	Bhisti	day	0.0014	320.83	0.45
0023	Mason (brick layer) 1st class	day	0.0003	476.00	0.14
0024	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	day	0.0003	374.50	0.11
0028	Mate	day	0.0002	320.83	0.06
9999	Hire charges of machine etc.	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
9999	Sundries	L.S.	0.13	2.00	0.26
	TOTAL				691.97 W
	Add 1 % Water charges on "W"				6.92
	TOTAL				698.89 X
	Add GST (multiplying factor 0.1405) on "X"				98.19
	TOTAL				797.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				119.56
	Total				916.65 Z
	Add Cess @ 1% on "Z"				9.17
	Cost of 5.00 bat clamps				925.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 bat clamp				185.16
	Say				185.15
12.38.2	150 mm diameter				
	Details of cost of 5 nos.				
	MATERIAL				
886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia C.C. block 5x0.1x0.1x0.1 = 0.005 cum	each	5.00	45.00	225.00
9977	Carriage of bat clamps	L.S.	2.47	2.00	4.94
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.5	320.83	160.42
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1350.00	4.46
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1350.00	1.49
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0044	106.13	0.47
982	Coarse sand	cum	0.0022	1350.00	2.97
2203	Carriage of Coarse sand	cum	0.0022	106.13	0.23
367	Portland Cement (OPC-43 grade)	tonne	0.0016	4940.00	7.90
2209	Carriage of Cement	tonne	0.0016	94.34	0.15
0017	Beldar	day	0.0045	320.83	1.44
0018	Coolie	day	0.0032	320.83	1.03
0011	Bhisti	day	0.0014	320.83	0.45
0023	Mason (brick layer) 1st class	day	0.0003	476.00	0.14
0024	Mason (brick layer) 2nd class	day	0.0003	374.50	0.11
0028	Mate	day	0.0002	320.83	0.06
9999	Hire charges of machine etc.	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
9999	Sundries	L.S.	0.13	2.00	0.26
	TOTAL				766.97 W
	Add 1 % Water charges on "W"				7.67
	TOTAL				774.64 X
	Add GST (multiplying factor 0.1405) on "X"				108.84
	TOTAL				883.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				132.52
	Total				1016.00 Z
	Add Cess @ 1% on "Z"				10.16
	Cost of 5.00 bat clamps				1026.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 bat clamp				205.23
	Say				205.25
12.39	Providing lead caulked joints to sand cast iron rain water pipes and fittings:				
12.39.1	100 mm dia Pipe				
	Details of cost for one joint.				
	MATERIAL				
865	Pig lead	kilogram	0.98	130.00	127.40
1001	Spun yarn	kilogram	0.11	50.00	5.50
9999	Kerosene oil fuel and sundries	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	1.43	2.00	2.86
	LABOUR				
0019	Fitter (grade 1)	day	0.06	476.00	28.56
0020	Assistant Fitter or 2nd class Fitter	day	0.06	374.50	22.47
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				252.33 W
	Add 1 % Water charges on "W"				2.52
	TOTAL				254.85 X
	Add GST (multiplying factor 0.1405) on "X"				35.81
	TOTAL				290.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.60
	Total				334.26 Z
	Add Cess @ 1% on "Z"				3.34
	Cost of 1.00 joint				337.60
	Say				337.60
12.39.2	150 mm dia Pipe				
	Details of cost for one joint.				
	MATERIAL				
865	Pig lead	kilogram	1.48	130.00	192.40
1001	Spun yarn	kilogram	0.17	50.00	8.50
9999	Kerosene oil fuel and sundries	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0020	Assistant Fitter or 2nd class Fitter	day	0.08	374.50	29.96
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				349.56 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.50
	TOTAL				353.06 X
	Add GST (multiplying factor 0.1405) on "X"				49.60
	TOTAL				402.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				60.40
	Total				463.06 Z
	Add Cess @ 1% on "Z"				4.63
	Cost of 1.00 joint				467.70
	Say				467.70
12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				
12.40.1	Sand cast iron plain shoes :				
12.40.1.1	150 mm diameter				
	Details of cost for one shoe				
966.00	Sand Cast iron plain shoe 150 mm dia	each	1.00	285.00	285.00
9988	Carriage, fixing and mortar	L.S.	17.55	2.00	35.10
	TOTAL				320.10 W
	Add 1 % Water charges on "W"				3.20
	TOTAL				323.30 X
	Add GST (multiplying factor 0.1405) on "X"				45.42
	TOTAL				368.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.31
	Total				424.03 Z
	Add Cess @ 1% on "Z"				4.24
	Cost of 1.00 joint				428.27
	Say				428.25
12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
12.41.1	75 mm diameter				
	Details of cost for 6.00 metres				
7188	U-PVC pipes (working pressure 4 kg / sqcm.) Single socketed pipe 75 mm dia.	metre	6.000	70.00	420.00
7190	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 75 mm dia.	each	1.000	8.00	8.00
9977	Carriage of materials	L.S.	13.52	2.00	27.04
9999	Adhesive, and sundries etc.	L.S.	6.76	2.00	13.52
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.19	476.00	90.44
0017	Beldar	day	0.37	320.83	118.71
0010	Bandhani	day	0.08	320.83	25.67
9999	Scaffolding etc.	L.S.	18.59	2.00	37.18
	TOTAL				740.55 W
	Add 1 % Water charges on "W"				7.41
	TOTAL				747.96 X
	Add GST (multiplying factor 0.1405) on "X"				105.09
	TOTAL				853.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				127.96
	Total				981.00 Z
	Add Cess @ 1% on "Z"				9.81
	Cost of 6.00 metre				990.81
	Cost of 1.00 metre				165.14
	Say				165.15

12.41.2 110 mm diameter

Details of cost for 6.00 metres

7189	U-PVC pipes (working pressure 4 kg / sqcm) Single socketed pipe 110 mm dia.	metre	6.00	130.00	780.00
7191	U-PVC pipes (working pressure 4 kg / sqcm.) Rubber (Seal) Ring 110 mm dia.	each	1.00	11.00	11.00
9977	Carriage of materials	L.S.	17.55	2.00	35.10
9999	Adhesive, and sundries etc.	L.S.	8.06	2.00	16.12
	LABOUR				
0019	Fitter (grade 1)	day	0.23	476.00	109.48
0017	Beldar	day	0.45	320.83	144.37
0010	Bandhani	day	0.11	320.83	35.29
9999	Scaffolding etc.	L.S.	18.59	2.00	37.18
	TOTAL				1168.54 W
	Add 1 % Water charges on "W"				11.69
	TOTAL				1180.23 X
	Add GST (multiplying factor 0.1405) on "X"				165.82
	TOTAL				1346.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				201.91
	Total				1547.96 Z
	Add Cess @ 1% on "Z"				15.48
	Cost of 6.00 metre				1563.44
	Cost of 1.00 metre				260.57
	Say				260.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
12.42.1	Coupler				
12.42.1.1	75 mm				
	Details of cost for 1 coupler				
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	1.00	18.00	18.00
7190	U-PVC pipes (working pressure 4 kg / sqcm.)	each	2.00	8.00	16.00
9999	Rubber (Seal) Ring 75 mm dia. Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
	LABOUR				
9988	Carriage and fixing charges	L.S.	9.36	2.00	18.72
	TOTAL				58.18 W
	Add 1 % Water charges on "W"				0.58
	TOTAL				58.76 X
	Add GST (multiplying factor 0.1405) on "X"				8.26
	TOTAL				67.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.05
	Total				77.07 Z
	Add Cess @ 1% on "Z"				0.77
	Cost of 1 coupler				77.84
	Say				77.85
12.42.1.2	110 mm				
	Details of cost for 1 coupler				
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	1.00	39.00	39.00
7191	U-PVC pipes (working pressure 4 kg / sqcm.)	each	2.00	11.00	22.00
9999	Rubber (Seal) Ring 110 mm dia. Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
	LABOUR				
9988	Carriage and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				88.04 W
	Add 1 % Water charges on "W"				0.88
	TOTAL				88.92 X
	Add GST (multiplying factor 0.1405) on "X"				12.49
	TOTAL				101.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.21
	Total				116.63 Z
	Add Cess @ 1% on "Z"				1.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 coupler				117.79
	Say				117.80
12.42.2	Single pushfit Coupler				
12.42.2.1	75 mm				
	Details of cost for 1 coupler				
7194	UPVC pushfit coupler (single) 75 mm thick	each	1.00	18.00	18.00
7190	U-PVC pipes (working pressure 4 kg / sqcm.)	each	2.00	8.00	16.00
9999	Rubber (Seal) Ring 75 mm dia. Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	9.36	2.00	18.72
	TOTAL				58.18 W
	Add 1 % Water charges on "W"				0.58
	TOTAL				58.76 X
	Add GST (multiplying factor 0.1405) on "X"				8.26
	TOTAL				67.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.05
	Total				77.07 Z
	Add Cess @ 1% on "Z"				0.77
	Cost of 1 coupler				77.84
	Say				77.85
12.42.2.2	110 mm				
	Details of cost for 1 coupler				
7195	UPVC pushfit coupler (single) 110 mm thick	each	1.00	32.00	32.00
7191	U-PVC pipes (working pressure 4 kg / sq.cm.)	each	2.00	11.00	22.00
9999	Rubber (Seal) Ring 110 mm dia. Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				81.04 W
	Add 1 % Water charges on "W"				0.81
	TOTAL				81.85 X
	Add GST (multiplying factor 0.1405) on "X"				11.50
	TOTAL				93.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.00
	Total				107.35 Z
	Add Cess @ 1% on "Z"				1.07
	Cost of 1 coupler				108.43
	Say				108.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.42.3	Single tee with door				
12.42.3.1	75x75x75 mm				
	Details of cost for 1 tee				
	MATERIAL				
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	1.00	59.00	59.00
7190	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 75 mm dia.	each	3.00	8.00	24.00
9988	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	2.00	21.52
	TOTAL				104.52 W
	Add 1 % Water charges on "W"				1.05
	TOTAL				105.57 X
	Add GST (multiplying factor 0.1405) on "X"				14.83
	TOTAL				120.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.06
	Total				138.46 Z
	Add Cess @ 1% on "Z"				1.38
	Cost of 1 tee				139.84
	Say				139.85
12.42.3.2	110x110x110 mm				
	Details of cost for 1 tee				
	MATERIAL				
7199	UPVC single equal Tee (with door) 110x110x110 mm	each	1.00	92.00	92.00
7191	U-PVC pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	each	3.00	11.00	33.00
9988	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	2.00	26.94
	TOTAL				151.94 W
	Add 1 % Water charges on "W"				1.52
	TOTAL				153.46 X
	Add GST (multiplying factor 0.1405) on "X"				21.56
	TOTAL				175.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				26.25
	Total				201.27 Z
	Add Cess @ 1% on "Z"				2.01
	Cost of 1 tee				203.29
	Say				203.30
12.42.4	Single tee without door				
12.42.4.1	75x75x75 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 1 tee					
MATERIAL					
7196	UPVC single equal Tee (with door) 75x75x75 mm	each	1.00	46.00	46.00
7190	U-PVC pipes (working pressure 4 kg / sqcm)	each	3.00	8.00	24.00
9988	Rubber (Seal) Ring 75 mm dia. Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	2.00	21.52
TOTAL					91.52 W
Add 1 % Water charges on "W"					0.92
TOTAL					92.44 X
Add GST (multiplying factor 0.1405) on "X"					12.99
TOTAL					105.42 Y
Add 15 % Contractor's profit and overheads on "Y"					15.81
Total					121.24 Z
Add Cess @ 1% on "Z"					1.21
Cost of 1 tee					122.45
Say					122.45

12.42.4.2 110x110x110 mm

Details of cost for 1 tee

MATERIAL

7197	UPVC single equal Tee (with door) 110x110x110 mm	each	1.00	81.00	81.00
7191	U-PVC pipes (working pressure 4 kg / sqcm)	each	3.00	11.00	33.00
9988	Rubber (Seal) Ring 110 mm dia. Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	2.00	26.94
TOTAL					140.94 W
Add 1 % Water charges on "W"					1.41
TOTAL					142.35 X
Add GST (multiplying factor 0.1405) on "X"					20.00
TOTAL					162.35 Y
Add 15 % Contractor's profit and overheads on "Y"					24.35
Total					186.70 Z
Add Cess @ 1% on "Z"					1.87
Cost of 1 tee					188.57
Say					188.55

12.42.5 Bend 87.5°

12.42.5.1 75 mm bend

Details of cost for 1 bend

7208	UPVC bend 87.5° 75 mm bend	each	1.00	35.00	35.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7190	U-PVC pipes (working pressure 4 kg / sqcm)	each	1.00	8.00	8.00
	Rubber (Seal) Ring 75 mm dia.				
9999	Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	9.36	2.00	18.72
	TOTAL				67.18 W
	Add 1 % Water charges on "W"				0.67
	TOTAL				67.85 X
	Add GST (multiplying factor 0.1405) on "X"				9.53
	TOTAL				77.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.61
	Total				88.99 Z
	Add Cess @ 1% on "Z"				0.89
	Cost of 1 bend				89.88
	Say				89.90

12.42.5.2 110 mm bend

Details of cost for 1 bend

7209	UPVC bend 87.5° 110 mm bend	each	1.00	59.00	59.00
7191	U-PVC pipes (working pressure 4 kg / sqcm)	each	1.00	11.00	11.00
	Rubber (Seal) Ring 110 mm dia.				
9999	Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				97.04 W
	Add 1 % Water charges on "W"				0.97
	TOTAL				98.01 X
	Add GST (multiplying factor 0.1405) on "X"				13.77
	TOTAL				111.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.77
	Total				128.55 Z
	Add Cess @ 1% on "Z"				1.29
	Cost of 1 bend				129.83
	Say				129.85

12.42.6 Shoe (Plain)

12.42.6.1 75 mm Shoe

Details of cost for 1 shoe

7212	UPVC plain shoe 75 mm bend	each	1.00	27.00	27.00
7190	U-PVC pipes (working pressure 4 kg / sqcm)	each	1.00	8.00	8.00
	Rubber (Seal) Ring 75 mm dia.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	9.36	2.00	18.72
	TOTAL				59.18 W
	Add 1 % Water charges on "W"				0.59
	TOTAL				59.77 X
	Add GST (multiplying factor 0.1405) on "X"				8.40
	TOTAL				68.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.23
	Total				78.40 Z
	Add Cess @ 1% on "Z"				0.78
	Cost of 1 shoe				79.18
	Say				79.20

12.42.6.2 110 mm Shoe

Details of cost for 1 shoe

7213	UPVC plain shoe 110 mm bend	each	1.00	47.00	47.00
7191	U-PVC pipes (working pressure 4 kg / sqcm)	each	1.00	11.00	11.00
	Rubber (Seal) Ring 110 mm dia.				
9999	Adhesive, and sundries etc.	L.S.	2.73	2.00	5.46
9988	Carriage and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				85.04 W
	Add 1 % Water charges on "W"				0.85
	TOTAL				85.89 X
	Add GST (multiplying factor 0.1405) on "X"				12.07
	TOTAL				97.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.69
	Total				112.65 Z
	Add Cess @ 1% on "Z"				1.13
	Cost of 1 shoe				113.78
	Say				113.80

12.43 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.

12.43.1 75 mm

Details of cost for 5 nos.

MATERIAL

7214	UPVC pipe clip 75 mm bend	each	5.00	15.00	75.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of U-PVC pipe clips	L.S.	2.47	2.00	4.94
870	Plug	each	10	10.00	100.00
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	0.91	2.00	1.82
9999	Sundries cement mortar 1:4 (1Cement : 4 Coarse sand)	L.S.	3.90	2.00	7.80
	TOTAL				704.65 W
	Add 1 % Water charges on "W"				7.05
	TOTAL				711.70 X
	Add GST (multiplying factor 0.1405) on "X"				99.99
	TOTAL				811.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				121.75
	Total				933.44 Z
	Add Cess @ 1% on "Z"				9.33
	Cost of 5 Nos.				942.78
	Cost of 1 No.				188.56
	Say				188.55

12.43.2 110 mm

Details of cost for 5 nos.

MATERIAL

7215	UPVC pipe clip 110 mm bend	each	5.000	14.00	70.00
9977	Carriage of U-PVC pipe clips	L.S.	2.470	2.00	4.94
870	Plug	each	10.000	10.00	100.00
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.750	374.50	280.88
0017	Beldar	day	0.500	320.83	160.42
9999	Sundries	L.S.	7.150	2.00	14.30
9999	Sundries	L.S.	0.910	2.00	1.82
9999	Sundries cement mortar 1:4 (1Cement : 4 Coar:	L.S.	3.900	2.00	7.80
	TOTAL				699.65 W
	Add 1 % Water charges on "W"				7.00
	TOTAL				706.65 X
	Add GST (multiplying factor 0.1405) on "X"				99.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				805.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				120.89
	Total				926.82 Z
	Add Cess @ 1% on "Z"				9.27
	Cost of 5 Nos.				936.09
	Cost of 1 No.				187.22
	Say				187.20
12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.				
	Details of cost for 1 grating				
	MATERIAL				
7187	C.I. grating 150 mm dia. (Weighing not less than 440 gm)	each	1.00	27.00	27.00
9977	Carriage of material and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				35.32 W
	Add 1 % Water charges on "W"				0.35
	TOTAL				35.67 X
	Add GST (multiplying factor 0.1405) on "X"				5.01
	TOTAL				40.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				6.10
	Total				46.79 Z
	Add Cess @ 1% on "Z"				0.47
	Cost of each grating				47.26
	Say				47.25
12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
12.45.1	of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS Certification marks)					
	Details of cost for 10.8x9.6m = 103.68sqm.					
	MATERIAL					
	Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm.					
	7009	12.5 mm thick tapered edge gypsum plain borad	sqm	108.86	155.000	16873.30
	7010	Galvanised Steel ceiling section (size 80x26x0.50mm)	metre	238.14	46.000	10954.44
	7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	41.84	22.000	920.48
	7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.000	3447.36
	7013	Strap hanger Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	metre	10.80	12.000	129.60
	7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.000	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	21.60	38.000	820.80	
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72.00	3.000	216.00	
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.000	580.00	
7016	Joint filler	kilogram	22.81	26.000	593.06	
7017	Joint finisher	kilogram	34.21	23.000	786.83	
7018	Joint tape roll	roll	1.27	100.000	127.00	
7021	Primer (for gypsum board)	litre	18.66	85.000	1586.10	
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.000	792.00	
9999	Sundries like rawl plug scaffolding etc	L.S.	807.30	2.000	1614.60	
9977	Carriage of material etc.	L.S.	447.20	2.000	894.40	
	LABOUR :-					
0015	Carpenter 2nd class	day	31.104	374.500	11648.45	
0017	Beldar	day	31.104	320.830	9979.10	
0031	Painter	day	10.368	374.500	3882.82	
	TOTAL				66602.33 W	
	Add 1 % Water charges on "W"				666.02	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				67268.35 X
	Add GST (multiplying factor 0.1405) on "X"				9451.20
	TOTAL				76719.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				11507.93
	Total				88227.49 Z
	Add Cess @ 1% on "Z"				882.27
	Cost for 103.68 sqm.				89109.77
	Cost of 1 Sqm.				859.47
	Say				859.45
12.45.2	12.5 mm thick tapered edge Glass Reinforced Gypsum (GRG) board conforming to IS: 2095- (Part 3) : 1996 (Board with BIS Certification marks)				
	Details of cost for 10.8x9.6m = 103.68sqm.				
	MATERIAL				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm.				
7366	12.5 mm thick tapered edge gypsum fire resistant board	sqm	108.86	240	26126.40
7010	Galvanised Steel ceiling section (size 80x26x0.50mm)	metre	238.14	46.00	10954.44
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50mm)	metre	41.84	22.00	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.00	3447.36
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50mm)	metre	10.80	12.00	129.60
7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.00	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	21.60	38.00	820.80
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72.00	3.00	216.00
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.00	580.00
7016	Joint filler	kilogram	22.81	26.00	593.06
7017	Joint finisher	kilogram	34.21	23.00	786.83
7018	Joint tape roll	roll	1.27	100.00	127.00
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries like rawl plug scaffolding etc	L.S.	807.3	2.00	1614.60
9977	Carriage of material etc.	L.S.	447.2	2.00	894.40
	LABOUR :-				
0015	Carpenter 2nd class	day	31.104	374.50	11648.45
0017	Beldar	day	31.104	320.83	9979.10
0031	Painter	day	10.37	374.50	3883.57
	TOTAL				75856.18 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				758.56
	TOTAL				76614.74 X
	Add GST (multiplying factor 0.1405) on "X"				10764.37
	TOTAL				87379.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				13106.87
	Total				100485.98 Z
	Add Cess @ 1% on "Z"				1004.86
	Cost for 103.68 sqm.				101490.84
	Cost of 1 Sqm.				978.89
	Say				978.90

12.45.3 12.5 mm thick tapered edge gypsum moisture resistant board

Details of cost for 10.8x9.6m = 103.68sqm.

MATERIAL

Gypsum board 12.5mm thick = 103.68 sqm.+
Add wastage @ 5% = 5.18sqm.
Total = 108.86 sqm.

7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	108.86	275.00	29936.50
7010	Galvanised Steel ceiling section (size 80x26x0.50mm)	metre	238.14	46.00	10954.44
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	41.84	22.00	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.00	3447.36
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50mm)	metre	10.80	12.00	129.60
7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.00	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	21.60	38.00	820.80
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72.00	3.00	216.00
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.00	580.00
7016	Joint filler	kilogram	22.81	26.00	593.06
7017	Joint finisher	kilogram	34.21	23.00	786.83
7018	Joint tape roll	roll	1.27	100.00	127.00
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries like rawl plug scaffolding etc	L.S.	807.30	2.00	1614.60
9977	Carriage of material etc.	L.S.	447.20	2.00	894.40
LABOUR					
0015	Carpenter 2nd class	day	31.104	374.50	11648.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	31.104	320.83	9979.10
0031	Painter	day	10.37	374.50	3883.57
	TOTAL				79666.28 W
	Add 1 % Water charges on "W"				796.66
	TOTAL				80462.94 X
	Add GST (multiplying factor 0.1405) on "X"				11305.04
	TOTAL				91767.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				13765.20
	Total				105533.18 Z
	Add Cess @ 1% on "Z"				1055.33
	Cost for 103.68 sqm.				106588.52
	Cost of 1 Sqm.				1028.05
	Say				1028.05

12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-incharge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60

Details of cost for 10.8x9.6m = 103.68sqm.

MATERIAL

Gypsum board 12.5mm thick = 103.68 sqm.+
Add wastage @ 5% = 5.18sqm.
Total = 108.86 sqm.

7028	12.5 mm thick Fully Perforated gypsum board	sqm	108.86	410.00	44632.60
7010	Galvanised Steel ceiling section (size 80x26x0.50mm)	metre	238.14	46.00	10954.44
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	41.84	22.00	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.00	3447.36
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	metre	10.80	12.00	129.60
7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.00	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos	21.60	38.00	820.80
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60mm)	each	72.00	3.00	216.00
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.00	580.00
7016	Joint filler	kilogram	22.81	26.00	593.06
7017	Joint finisher	kilogram	34.21	23.00	786.83
7018	Joint tape roll	roll	1.27	100.00	127.00
7021	Primer (for gypsum board)	litre	18.66	85.00	1586.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries like rawl plug scaffolding etc	L.S.	807.30	2.00	1614.60
9977	Carriage of material etc.	L.S.	447.20	2.00	894.40
	LABOUR :-				
0015	Carpenter 2nd class	day	31.104	374.50	11648.45
0017	Beldar	day	31.104	320.83	9979.10
0031	Painter	day	10.37	374.50	3883.57
	TOTAL				94362.38 W
	Add 1 % Water charges on "W"				943.62
	TOTAL				95306.00 X
	Add GST (multiplying factor 0.1405) on "X"				13390.49
	TOTAL				108696.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				16304.47
	Total				125000.97 Z
	Add Cess @ 1% on "Z"				1250.01
	Cost for 103.68 sqm.				126250.98
	Cost of 1 Sqm.				1217.70
	Say				1217.70
12.46	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.				
	Details of cost for 1 grating				
	MATERIAL				
7857	P.T.M.T. Grating square slit 150mm	each	1.00	66.75	66.75
9977	Carriage of material and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				75.07 W
	Add 1 % Water charges on "W"				0.75
	TOTAL				75.82 X
	Add GST (multiplying factor 0.1405) on "X"				10.65
	TOTAL				86.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.97
	Total				99.44 Z
	Add Cess @ 1% on "Z"				0.99
	Cost of each grating				100.44
	Say				100.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.				
12.47.1	2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified				
	Details of cost for area of roof.				
	2x18.09x5.1 = 184.518 sqm.				
	MATERIAL				
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	240.408	485.00	116597.88
9977	Carriage of sheet	L.S.	104.00	2.00	208.00
	G.I. Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap $5.1/0.3 = 17$ nos. $2 \times 26(\text{laps}) \times 17 \text{ nos.} = 884 \text{ nos.}$				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side) $2 \times 5 \times 27$ (No. of sheets) $\times 23$ nos. of bolts in each sheet = 810 nos.	10 Nos	88.40	38.00	3359.20
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	81.00	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) $884 + 810 = 1694$	100 Nos	16.94	21.00	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	53.82	2.00	107.64
	LABOUR				
0030	Mistry	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	15.50	374.50	5804.75
0017	Beldar	day	15.50	320.83	4972.87
	TOTAL				142306.90 W
	Add 1 % Water charges on "W"				1423.07
	TOTAL				143729.96 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				20194.06
	TOTAL				163924.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				24588.60
	Total				188512.63 Z
	Add Cess @ 1% on "Z"				1885.13
	Cost of 184.518 Sqm.				190397.75
	Cost of 1 Sqm.				1031.87
	Say				1031.85
12.47.2	2 mm thick flat				
	Details of cost for area of roof.				
	2x18.09x5.1 = 184.518 sqm.				
	MATERIAL				
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	430.00	103375.44
9977	Carriage of sheet	L.S.	104.00	2.00	208.00
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1metre No. of bolts in one lap $5.1/0.3 = 17$ nos. $2 \times 26(\text{laps}) \times 17 \text{ nos.} = 884$ nos.				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side) $2 \times 5 \times 27$ (No. of sheets) $\times 23$ nos. of bolts in each sheet = 810 nos.	10 Nos	88.40	38.00	3359.20
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	81.00	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) $884 + 810 = 1694$	100 Nos	16.94	21.00	355.74
1208	Bitumen washer	100 Nos	16.94	30.00	508.20
9977	Carriage of bolts and washers	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	53.82	2.00	107.64
	LABOUR				
0030	Mistry	day	1.30	476.00	618.80
0015	Carpenter 2nd class	day	15.50	374.50	5804.75
0017	Beldar	day	15.50	320.83	4972.87
	TOTAL				129084.46 W
	Add 1 % Water charges on "W"				1290.84
	TOTAL				130375.30 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				18317.73
	TOTAL				148693.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				22303.95
	Total				170996.98 Z
	Add Cess @ 1% on "Z"				1709.97
	Cost of 184.518 Sqm.				172706.95
	Cost of 1 Sqm.				935.99
	Say				936.00
12.48	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).				
	Details of cost for 10 sqm				
	MATERIAL				
8670	Mangalore tiles 20 mm thick	each	160.00	8.00	1280.00
2207	Carriage of Brick tiles	1000 Nos	0.16	169.81	27.17
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.30	476.00	142.80
0017	Beldar	day	1.56	320.83	500.49
9999	Sundries	L.S.	13.00	2.00	26.00
	Total				1976.46 W
	Add 1 % Water charges on "W"				19.76
	TOTAL				1996.23 X
	Add GST (multiplying factor 0.1405) on "X"				280.47
	TOTAL				2276.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				341.50
	Total				2618.20 Z
	Add Cess @ 1% on "Z"				26.18
	Cost of 10 sqm				2644.39
	Cost of 1 sqm				264.44
	Say				264.45
12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).				
	Details of cost for 3.60 metre				
	MATERIAL				
8669	Mangalore ridge tiles 20 mm thick	each	12.00	8.00	96.00
2207	Carriage of Brick tiles	1000 Nos	0.012	169.81	2.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.01	476.00	4.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	2.60	2.00	5.20
	Total				156.12 W
	Add 1 % Water charges on "W"				1.56
	TOTAL				157.68 X
	Add GST (multiplying factor 0.1405) on "X"				22.15
	TOTAL				179.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				26.98
	Total				206.81 Z
	Add Cess @ 1% on "Z"				2.07
	Cost of 3.60 metre				208.88
	Cost for 1 metre				58.02
	Say				58.00

12.50 Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Details of cost of 216.14 sqm.

Consider a shed of 20x10 metres.

(External dimensions of plinth).

Area of roof-

20.2x10.70m = 216.14 sqm.

MATERIAL

Sheets used = 20 nos.x10.70mx1.06m

= 226.84sqm

Add 3% wastage = 6.81 Total = 233.65sqm.

8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	350.00	81777.50
9977	Carriage of sheets	L.S.	104.00	2.00	208.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	47.60	120.00	5712.00
1208	Bitumen washer	100 Nos	4.76	30.00	142.80
1209	G.I. plain washer thick	100 Nos	4.76	35.00	166.60
9977	Carriage of bolts and nuts, washers etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	39.52	2.00	79.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0030	Mistry	day	2.34	476.00	1113.84
0015	Carpenter 2nd class	day	9.34	374.50	3497.83
0017	Beldar	day	9.34	320.83	2996.55
	TOTAL				95710.28 W
	Add 1 % Water charges on "W"				957.10
	TOTAL				96667.39 X
	Add GST (multiplying factor 0.1405) on "X"				13581.77
	TOTAL				110249.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				16537.37
	Total				126786.53 Z
	Add Cess @ 1% on "Z"				1267.87
	Cost of 216.14 sqm.				128054.39
	Cost of 1.00 sqm.				592.46
	Say				592.45
12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 1518 microns using self drilling/ self tapping screws complete :				
12.51.1	Ridges plain (500 - 600mm)				
	Detail of cost for 20.20 metre				
	One piece plain ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre + 5% wastage = 23.11 metre.				
	MATERIAL				
8672	Precoated galvanised steel plain ridges	metre	23.11	210.00	4853.10
	0.50 mm TCT and 500 -600 mm wide				0.00
9977	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	2.00	27.04
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0030	Mistry	day	0.14	476.00	66.64
0015	Carpenter 2nd class	day	0.55	374.50	205.98
0017	Beldar	day	1.64	320.83	526.16
	TOTAL				5692.44 W
	Add 1 % Water charges on "W"				56.92
	TOTAL				5749.36 X
	Add GST (multiplying factor 0.1405) on "X"				807.79
	TOTAL				6557.15 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				983.57
	Total				7540.72 Z
	Add Cess @ 1% on "Z"				75.41
	Cost of 20.20 metre				7616.12
	Cost of 1.00 metre				377.04
	Say				377.05
12.51.2	Flashings/ Aprons.(Upto 600 mm)				
	Details for shed of 20.2 metres completed length				
	MATERIAL				
8673	Precoated galvanised steel flashings/ aprons 0.50mm TCT and wide upto 600 mm 20.20 + 5% wastage = 23.11 metre	metre	23.11	210.00	4853.10
9977	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	2.00	6.50
9999	Sundries	L.S.	3.25	2.00	6.50
	LABOUR				
0030	Mistry	day	0.07	476.00	33.32
0015	Carpenter 2nd class	day	0.28	374.50	104.86
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				5267.36 W
	Add 1 % Water charges on "W"				52.67
	TOTAL				5320.03 X
	Add GST (multiplying factor 0.1405) on "X"				747.46
	TOTAL				6067.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				910.12
	Total				6977.62 Z
	Add Cess @ 1% on "Z"				69.78
	Cost of 20.20 metre				7047.40
	Cost of 1.00 metre				348.88
	Say				348.90

12.51.3 North light curves

Details of North light curve 20.20 metres long complete length

MATERIAL

8675	Precoated galvanised steel north light curves 20.20 + 5% wastage = 23.11 metre	metre	23.11	230.00	5315.30
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.00	19.76
9999	Sundries	L.S.	6.24	2.00	12.48

LABOUR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0030	Mistry	day	0.10	476.00	47.60
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				6334.32 W
	Add 1 % Water charges on "W"				63.34
	TOTAL				6397.66 X
	Add GST (multiplying factor 0.1405) on "X"				898.87
	TOTAL				7296.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				1094.48
	Total				8391.02 Z
	Add Cess @ 1% on "Z"				83.91
	Cost of 20.20 metre				8474.93
	Cost of 1.00 metre				419.55
	Say				419.55

12.51.4 Barge board (Upto 300 mm)

Details of cost for 8.23 metres
Completed length of barge boards
= 8.23 + 5% wastage = 8.64 metre
MATERIAL

8676	Precoated galvanised steel barge board	metre	8.64	215.00	1857.60
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	0.50	10.00	5.00
1211	G.I. plain washer for seam bolts	100 Nos	0.10	32.00	3.20
1208	Bitumen washer	100 Nos	0.05	30.00	1.50
9977	Carriage of barge boards, bolts, nuts and washers	L.S.	9.36	2.00	18.72
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0030	Mistry	day	0.04	476.00	19.04
0015	Carpenter 2nd class	day	0.06	374.50	22.47
0017	Beldar	day	0.40	320.83	128.33
	TOTAL				2069.38 W
	Add 1 % Water charges on "W"				20.69
	TOTAL				2090.08 X
	Add GST (multiplying factor 0.1405) on "X"				293.66
	TOTAL				2383.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				357.56
	Total				2741.29 Z
	Add Cess @ 1% on "Z"				27.41
	Cost of 8.23 metre				2768.70
	Cost of 1.00 metre				336.42
	Say				336.40

12.51.5 Crimp curve

Details of crimp curve 20.2 metres long complete length, Area 20.20 x 1.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	=21.412 sqm				
	MATERIAL				
8677	Precoated galvanised steel crimp curve	sqm	22.483	230.00	5171.09
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	4.00	120.00	480.00
1209	G.I. plain washer thick	100 Nos	0.40	35.00	14.00
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of hooks, nuts, washers and curves	L.S.	9.88	2.00	19.76
9999	Sundries	L.S.	6.24	2.00	12.48
	LABOUR				
0030	Mistry	day	0.10	476.00	47.60
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				6190.11 W
	Add 1 % Water charges on "W"				61.90
	TOTAL				6252.01 X
	Add GST (multiplying factor 0.1405) on "X"				878.41
	TOTAL				7130.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				1069.56
	Total				8199.98 Z
	Add Cess @ 1% on "Z"				82.00
	Cost of 21.412 sqm				8281.98
	Cost of 1.00 sqm				386.79
	Say				386.80

12.51.6 Gutter (600 mm over all girth)

Detail of cost of 10 metre
0.63mm thick with zinc coating not less
than 275gm/sqm
Consider a length of 10.00m
Sheet used = 10x1.06m x 0.60 = 6.36 sqm.
Total = 6.36 metre

8674	Precoated galvanised steel gutter	metre	10.00	420.00	4200.00
9977	Carriage of gutter	L.S.	1.04	2.00	2.08
1008	Flats upto 10 mm in thickness	quintal	0.0749	4500.00	337.05
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	2.00	38.00	76.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	9.00	270.00
1210	G.I. plain washer thin	100 Nos	0.70	21.00	14.70
1208	Bitumen washer	100 Nos	0.40	30.00	12.00
9977	Carriage of G.I. seam bolts and washers	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	5.33	2.00	10.66
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Blacksmith 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	12.61	2.00	25.22
0030	Mistry	day	0.28	476.00	133.28
0012	Blacksmith 1st class	day	0.84	476.00	399.84
0015	Carpenter 2nd class	day	0.62	374.50	232.19
0017	Beldar	day	1.68	320.83	538.99
	TOTAL				6655.89 W
	Add 1 % Water charges on "W"				66.56
	TOTAL				6722.45 X
	Add GST (multiplying factor 0.1405) on "X"				944.50
	TOTAL				7666.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				1150.04
	Total				8817.00 Z
	Add Cess @ 1% on "Z"				88.17
	Cost of 10.00 metres				8905.17
	Cost of 1.00 metre				890.52
	Say				890.50

12.52 Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. Details of cost for 100 sqm. MATERIAL Ceiling Area =100 sqm Add wastage @ 5% = 0.05 sqm. Total=100.05 sqm				
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	612.00	64260.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	115.00	3392.50
8612	Perimeter wall angle 24x24x0.3mm (3 metre long) Including Wastage @ 10%	each	13.50	80.00	1080.00
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long) Including Wastage @ 10% on Grid for cut outs	each	147.00	35.00	5145.00
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long) Including Wastage @ 10% on Grid for cut outs	each	147.00	17.00	2499.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.00	375.90
9977	Carriage of materials etc.	L.S.	89.28	2.00	178.56
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				99654.05 W
	Add 1 % Water charges on "W"				996.54
	TOTAL				100650.59 X
	Add GST (multiplying factor 0.1405) on "X"				14141.41
	TOTAL				114792.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				17218.80
	Total				132010.80 Z
	Add Cess @ 1% on "Z"				1320.11
	Cost of 100 sqm.				133330.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				1333.31
	Say				1333.30
12.52.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Ceiling Area =100 sqm				
	Add wastage @ 5% = 0.05 sqm.				
	Total=100.05 sqm				
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	105.00	715.00	75075.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	115.00	3392.50
	Including Wastage @ 10%				
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	1080.00
	Including Wastage @ 10%				
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	35.00	5145.00
	Including Wastage @ 10% on Grid for cut outs				
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	17.00	2499.00
	Including Wastage @ 10% on Grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.00	375.90
9977	Carriage of materials etc.	L.S.	89.28	2.00	178.56
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				110469.05 W
	Add 1 % Water charges on "W"				1104.69
	TOTAL				111573.74 X
	Add GST (multiplying factor 0.1405) on "X"				15676.11
	TOTAL				127249.85 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				19087.48
	Total				146337.33 Z
	Add Cess @ 1% on "Z"				1463.37
	Cost of 100 sqm.				147800.70
	Cost of 1 sqm.				1478.01
	Say				1478.00
12.52.3	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Ceiling Area =100 sqm				
	Add wastage @ 5% = 0.05 sqm.				
	Total=100.05 sqm				
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	105.00	880.00	92400.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	115.00	3392.50
	Including Wastage @ 10%				
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	1080.00
	Including Wastage @ 10%				
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	35.00	5145.00
	Including Wastage @ 10% on Grid for cut outs				
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	17.00	2499.00
	Including Wastage @ 10% on Grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.00	375.90
9977	Carriage of materials etc.	L.S.	89.28	2.00	178.56
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				127794.05 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				1277.94
	TOTAL				129071.99 X
	Add GST (multiplying factor 0.1405) on "X"				18134.61
	TOTAL				147206.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				22080.99
	Total				169287.60 Z
	Add Cess @ 1% on "Z"				1692.88
	Cost of 100 sqm.				170980.47
	Cost of 1 sqm.				1709.80
	Say				1709.80
12.52.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Ceiling Area =100 sqm				
	Add wastage @ 5% = 0.05 sqm.				
	Total=100.05 sqm				
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	105.00	375.00	39375.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	115.00	3392.50
	Including Wastage @ 10%				
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	1080.00
	Including Wastage @ 10%				
8613	Intermediate cross T-section 24x25x0.3mm (1.2 mtrs long)	each	147.00	35.00	5145.00
	Including Wastage @ 10% on Grid for cut outs				
8614	Intermediate cross T-section 24x25x0.3mm (0.6 mtrs long)	each	147.00	17.00	2499.00
	Including Wastage @ 10% on Grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9999	Sundries i.e. scaffolding etc.	L.S.	187.95	2.00	375.90
9977	Carriage of materials etc.	L.S.	89.28	2.00	178.56
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				74769.05 W
	Add 1 % Water charges on "W"				747.69
	TOTAL				75516.74 X
	Add GST (multiplying factor 0.1405) on "X"				10610.10
	TOTAL				86126.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				12919.03
	Total				99045.87 Z
	Add Cess @ 1% on "Z"				990.46
	Cost of 100 sqm.				100036.33
	Cost of 1 sqm.				1000.36
	Say				1000.35

- 12.53 Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.**

Details of cost for 100 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8589	Calcium Silicate tegular edged ceiling tiles 495x495 mm and 15 mm thick Area = 100 sqm + Add 5% wastage = 5 sam Total = 105 sam	sqm	105.00	685.00	71925.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33mm (3.00 metre long)	each	29.50	120.00	3540.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	13.50	65.00	877.50
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	147.00	40.00	5880.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33. (0.6 metre long)	each	147.00	20.00	2940.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	100.00	1.00	100.00
9999	scaffolding etc.	L.S.	498.65	2.00	997.30
9977	Carriage of materials etc.	L.S.	237.48	2.00	474.96
9999	Sundries	L.S.	310.70	2.00	621.40
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
					<u>110079.25</u> W
	Add 1 % Water charges on "W"				1100.79
	TOTAL				<u>111180.04</u> X
	Add GST (multiplying factor 0.1405) on "X"				15620.80
	TOTAL				<u>126800.84</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				19020.13
	Total				<u>145820.96</u> Z
	Add Cess @ 1% on "Z"				1458.21
	Cost of 100 sqm.				<u>147279.17</u>
	Cost of 1 sqm.				1472.79
	Say				1472.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.54	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ sqm (both side inclusive), fixing with clip in tiles into spring T with :				
12.54.1	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending				
	Details of cost for 100 sqm.				
	MATERIAL				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5mm thick	sqm	105.00	677.00	71085.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long) Including Wastage @ 10%	metre	60.00	190.00	11400.00
8605	C Wall angle section 20x30x20x 0.50 mm (3.00 meter long) Including Wastage @ 10%	metre	27.70	95.00	2631.50
8606	Main C Carrier Size 10x38x10x0.70mm (3.00 meter long) Including Wastage @ 10% on Grid for cut outs	metre	33.00	115.00	3795.00
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	8.00	704.00
8610	Wire Coupling Clip	each	333.00	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.00	8.00	640.00
8616	Adjustment clip 85x30x0.8mm	each	80.00	5.00	400.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	80.00	4.00	320.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	80.00	11.00	880.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	2.00	376.00
9977	Carriage of materials etc.	L.S.	90.00	2.00	180.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				116819.59 W
	Add 1 % Water charges on "W"				1168.20
	TOTAL				117987.79 X
	Add GST (multiplying factor 0.1405) on "X"				16577.28
	TOTAL				134565.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				20184.76
	Total				154749.83 Z
	Add Cess @ 1% on "Z"				1547.50
	Cost of 100 sqm.				156297.33
	Cost of 1 sqm.				1562.97
	Say				1562.95
12.54.2	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm. Total=105 sqm				
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5mm thick	sqm	105.00	782.00	82110.00
8604	Spring T-section 24x34x0.45 mm	metre	60.00	190.00	11400.00
	(3.00 meter long)				
	Including Wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm	metre	27.70	95.00	2631.50
	(3.00 meter long)				
	Including Wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70mm	metre	33.00	115.00	3795.00
	(3.00 meter long)				
	Including Wastage @ 10% on Grid for cut outs				
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	8.00	704.00
8610	Wire Coupling Clip	each	333.00	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.00	8.00	640.00
8616	Adjustment clip 85x30x0.8mm	each	80.00	5.00	400.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	80.00	4.00	320.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	80.00	11.00	880.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	2.00	376.00
9977	Carriage of materials etc.	L.S.	90.00	2.00	180.00
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				127844.59 W
	Add 1 % Water charges on "W"				1278.45
	TOTAL				129123.04 X
	Add GST (multiplying factor 0.1405) on "X"				18141.79
	TOTAL				147264.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				22089.72
	Total				169354.55 Z
	Add Cess @ 1% on "Z"				1693.55
	Cost of 100 sqm.				171048.09
	Cost of 1 sqm.				1710.48
	Say				1710.50
12.55	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.				
	Details of cost for 10 sqm				
	Area= 10 sqm+				
	Add wastage @ 3%=0.3 sqm				
	Total=10.30 sqm				
	MATERIAL				
1204	Precast heat resistant terrace tiles	sqm	10.3	409.00	4212.70
	(size 300x300mm) and 20mm thick Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item No.3.9 of SH:Mortar	cum	0.224	3815.05	854.57
367	Portland Cement (OPC-43 grade)	tonne	0.044	4940.00	217.36
368	White Cement	tonne	0.044	11200.00	492.80
2209	Carriage of Cement	tonne	0.088	94.34	8.30
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	60.00	184.80
	LABOUR				
0024	Mason (brick layer) 2nd class	day	1.60	374.50	599.20
0018	Coolie	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0011	Bhisti	day	1.00	320.83	320.83
013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	169.98	2.00	339.96
	Total				8673.01 W
	Add 1 % Water charges on "W"				86.73
	TOTAL				8759.74 X
	Add GST (multiplying factor 0.1405) on "X"				1230.74
	TOTAL				9990.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				1498.57
	Total				11489.06 Z
	Add Cess @ 1% on "Z"				114.89
	Cost of 10 sqm				11603.95
	Cost of 1 sqm				1160.40
	Say				1160.40
12.56	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.				
	Details of cost for 1 sqm				
	MATERIAL				
7050	PU Primer	sqm	1.00	60.00	60.00
	Area for PU Spray = 1 sqm+				
	Add for wastage @ 10%=0.10 sqm				
	Total=1.10 sqm				
7051	40 mm (average) PU spray having	sqm	1.10	400.00	440.00
	40-45 kg/m ³ density				
7052	GI wire netting 3/4" x 24 G	sqm	1.00	26.00	26.00
9999	Sundries	L.S.	6.71	2.00	13.42
9999	Polymerized mastic for all joints	L.S.	20.13	2.00	40.26
7053	400 G polythene sheet	sqm	1.00	14.00	14.00
9999	Cement	L.S.	44.67	2.00	89.34
9999	Graded stone	L.S.	13.75	2.00	27.50
9999	Sand	L.S.	21.48	2.00	42.96
9977	Carriage of material	L.S.	16.78	2.00	33.56
	LABOUR				0.00
9999	For PU spray	L.S.	80.54	2.00	161.08
9999	For cement screed with Polythene sheet	L.S.	53.69	2.00	107.38
	Total				1055.50 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				10.56
	TOTAL				1066.06 X
	Add GST (multiplying factor 0.1405) on "X"				149.78
	TOTAL				1215.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				182.38
	Total				1398.21 Z
	Add Cess @ 1% on "Z"				13.98
	Total				1412.19
	Cost of 1 sqm				1412.19
	Say				1412.20
12.57	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m³, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.				
	Details of cost for 10 sqm				
	MATERIAL				
	Area for 10.00sqm. (Finished surface) =				
	10.00sqm.+				
	Add Wastage @ 10% =1.00 sqm				
	Total =11.00sqm				
7232	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	11.00	143.00	1573.00
9999	Sundries including GL wire 20 SWg and Virgin polythene bags 200 gram	L.S.	52.00	2.00	104.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries (screws and washers)	L.S.	20.00	2.00	40.00
	Total				2115.42 W
	Add 1 % Water charges on "W"				21.15
	TOTAL				2136.57 X
	Add GST (multiplying factor 0.1405) on "X"				300.19
	TOTAL				2436.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				365.51
	Total				2802.27 Z
	Add Cess @ 1% on "Z"				28.02
	Cost of 10 sqm				2830.29
	Cost of 1 sqm				283.03
	Say				283.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.58	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
12.58.1	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing. Details of cost for 100 sqm Ceiling area = 100 sq.m Add wastage @ 5% = 0.05 Sqm Total =100.05 Sq.m MATERIALS :				
8784	8mm thick Calcium silicate perforated tiles of size 595 x595mm	sqm	100.05	833.00	83341.65
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	115.00	3392.50
8612	Perimeter wall angle 24x24x0.3mm (3 metre long)	each	13.50	80.00	1080.00
8613	Intermediate cross T-section 24x25x 0.3mm (1.2 mtrs long)	each	147.00	35.00	5145.00
8614	Intermediate cross T-section 24x25x 0.3mm (0.6 mtrs long)	each	147.00	17.00	2499.00
8615	Hanger rod 4 mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
9977	Sundries	L.S.	89.28	2.00	178.56
9999	Sundries i.e scaffolding etc.	L.S.	187.95	2.00	375.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR :				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				118735.70 W
	Add 1 % Water charges on "W"				1187.36
	TOTAL				119923.06 X
	Add GST (multiplying factor 0.1405) on "X"				16849.19
	TOTAL				136772.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				20515.84
	Total				157288.08 Z
	Add Cess @ 1% on "Z"				1572.88
	Cost of 100 sqm.				158860.96
	Cost of 1 sqm.				1588.61
	Say				1588.60

12.59 Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/ c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specifiaton and direction of the Engineer in charge but excluding the cost of painting with:

12.59.1 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.

Details of cost for 10.8 m x 9.6m = 103.68
sqm
MATERIALS:Area = 103.68 sq.m + Add.
Wastage of 5% = 5.18 Sq.m Total =
108.86 Sqm

MATERIALS :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8699	8 mm thick tapered edge calcium silicate board	sqm	108.86	265.00	28847.90
7010	G.I Ceiling Section (80 x26mm x26mm x 10.5mm each lip x 0.55 mm)	metre	238.14	46.00	10954.44
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50mm)	metre	41.84	22.00	920.48
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90mm)	metre	90.72	38.00	3447.36
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50mm)	metre	10.80	12.00	129.60
7014	Galvanised Steel connecting clips (2.64mm dia and 230 mm long GI wire)	each	189.00	4.00	756.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	21.60	38.00	820.80
8617	Soffit cleat (Size 27x37x25x1.60mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	10.00	58.00	580.00
7016	Joint filler	kilogram	22.81	26.00	593.06
7017	Joint finisher	kilogram	34.21	23.00	786.83
7388	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	each	72.00	11.00	792.00
7018	Joint Tape roll (120mm Roll)	roll	1.27	100.00	127.00
7021	Primer (for gypsum board// calcium silicate board)	litre	18.66	85.00	1586.10
9977	Carriage	L.S.	447.20	2.00	894.40
9999	Sundries i.e rawl plug, scaffolding etc.	L.S.	807.30	2.00	1614.60
	LABOUR :				
0015	Carpenter 2nd class	day	31.10	374.50	11646.95
0017	Beldar	day	31.10	320.83	9977.81
0031	Painter	day	10.37	374.50	3883.57
	TOTAL				78646.90 W
	Add 1 % Water charges on "W"				786.47
	TOTAL				79433.37 X
	Add GST (multiplying factor 0.1405) on "X"				11160.39
	TOTAL				90593.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				13589.06
	Total				104182.82 Z
	Add Cess @ 1% on "Z"				1041.83
	Cost of 103.68 sqm.				105224.65
	Cost of 1 sqm.				1014.90
	Say				1014.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.60	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183, density 48 kg/ m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building. Details of cost for 10 sqm Area for 10.00 sqm. (Finished surface)=10.00sqm.+ Add 10% for overlappings & wastage= 1.00sqm. Total= 11.00sqm				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.000	120.00	1320.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.000	2.00	208.00
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.000	2.00	702.00
	LABOUR				
0014	Carpenter 1st class	day	1.000	476.00	476.00
0017	Beldar	day	2.000	320.83	641.66
	TOTAL				3347.66 W
	Add 1 % Water charges on "W"				33.48
	TOTAL				3381.14 X
	Add GST (multiplying factor 0.1405) on "X"				475.05
	TOTAL				3856.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				578.43
	Total				4434.61 Z
	Add Cess @ 1% on "Z"				44.35
	Cost of 10 sqm.				4478.96
	Cost of 1 sqm.				447.90
	Say				447.90
12.61	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by crisscrossing GI wire. Details of cost for 10 sqm Area for 10.00sqm. (Finished surface)=10.00sqm.+ Add 10% for overlappings & wastage= 1.00sqm. Total= 11.00sqm				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.00	120.00	1320.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.00	2.00	104.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1822.42 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				18.22
	TOTAL				1840.64 X
	Add GST (multiplying factor 0.1405) on "X"				258.61
	TOTAL				2099.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				314.89
	Total				2414.14 Z
	Add Cess @ 1% on "Z"				24.14
	Cost of 10 sqm.				2438.28
	Cost of 1 sqm.				243.83
	Say				243.85
12.62	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m³, 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.				
	Details of cost for 10 sqm				
	Area for 10.00sqm. (Finished surface)=10.00sqm.+ Add 10% for overlappings & wastage= 1.00sqm. Total= 11.00sqm				
7273	Resin Bonded Rockwool 48 kg/m ³	sqm	11.00	120.00	1320.00
9999	Sundries including GI wire 20 SWG and	L.S.	52.00	2.00	104.00
	Virgin polythene bags 200 gram and Carriage				
	LABOUR				
0014	Carpenter 1st class	fay	0.50	476.00	238.00
0017	Beldar	fay	0.50	320.83	160.42
9999	Sundries (screws & washers)	L.S.	20.00	2.00	40.00
	TOTAL				1862.42 W
	Add 1 % Water charges on "W"				18.62
	TOTAL				1881.04 X
	Add GST (multiplying factor 0.1405) on "X"				264.29
	TOTAL				2145.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				321.80
	Total				2467.12 Z
	Add Cess @ 1% on "Z"				24.67
	Cost of 10 sqm.				2491.80
	Cost of 1 sqm.				249.18
	Say				249.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
12.63	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall be strictly as per manufacturer's specifications and as approved by Engineer-In-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-Charge.				
	Details of cost for 10 Sqm. MATERIALS :				
7238	High Albedo paint	kg	7.17	230.00	1649.10
9977	Carriage of paint	L.S.	4.53	2.00	9.06
	LABOUR :				
0017	Beldar (for cleanign the surface)	day	0.54	320.83	173.25
0031	Painter	day	0.54	374.50	202.23
9999	Sundries (Brushes & T&P etc.	L.S.	13.52	2.00	27.04
	MACHINERY : TOTAL				2060.68 W
	Add 1 % Water charges on "W"				20.61
	TOTAL				2081.28 X
	Add GST (multiplying factor 0.1405) on "X"				292.42
	TOTAL				2373.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				356.06
	Total				2729.76 Z
	Add Cess @ 1% on "Z"				27.30
	Cost of 10 sqm.				2757.06
	Cost of 1 sqm.				275.71
	Say				275.70

SUB HEAD : 13.0

FINISHING

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.1	12 mm cement plaster of mix :				
13.1.1	1:4 (1 cement: 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.144	3333.55	480.03
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1291.95 W
	Add 1 % Water charges on "W"				12.92
	TOTAL				1304.87 X
	Add GST (multiplying factor 0.1405) on "X"				183.33
	TOTAL				1488.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				223.23
	Total				1711.44 Z
	Add Cess @ 1% on "Z"				17.11
	Cost of 10.00 sqm				1728.55
	Cost of 1.00 sqm				172.86
	Say				172.85
13.1.2	1:6 (1 cement: 6 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.144	2679.10	385.79
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1197.71 W
	Add 1 % Water charges on "W"				11.98
	TOTAL				1209.69 X
	Add GST (multiplying factor 0.1405) on "X"				169.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1379.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				206.95
	Total				1586.60 Z
	Add Cess @ 1% on "Z"				15.87
	Cost of 10.00 sqm				1602.46
	Cost of 1.00 sqm				160.25
	Say				160.25
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.2.1	1:4 (1 cement: 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.172	3333.55	573.37
	LABOUR				
0040	Mason (average)	day	0.8	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1498.14 W
	Add 1 % Water charges on "W"				14.98
	TOTAL				1513.12 X
	Add GST (multiplying factor 0.1405) on "X"				212.59
	TOTAL				1725.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				258.86
	Total				1984.58 Z
	Add Cess @ 1% on "Z"				19.85
	Cost of 10.00 sqm				2004.42
	Cost of 1.00 sqm				200.44
	Say				200.45
13.2.2	1:6 (1 cement: 6 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.172	2679.10	460.81
	LABOUR				
0040	Mason (average)	day	0.8	374.50	299.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1385.58 W
	Add 1 % Water charges on "W"				13.86
	TOTAL				1399.43 X
	Add GST (multiplying factor 0.1405) on "X"				196.62
	TOTAL				1596.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				239.41
	Total				1835.46 Z
	Add Cess @ 1% on "Z"				18.35
	Cost of 10.00 sqm				1853.82
	Cost of 1.00 sqm				185.38
	Say				185.40
13.3	20 mm cement plaster of mix :				
13.3.1	1:4 (1 cement: 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.224	3333.55	746.71
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1804.12 W
	Add 1 % Water charges on "W"				18.04
	TOTAL				1822.17 X
	Add GST (multiplying factor 0.1405) on "X"				256.01
	TOTAL				2078.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				311.73
	Total				2389.91 Z
	Add Cess @ 1% on "Z"				23.90
	Cost of 10.00 sqm				2413.81
	Cost of 1.00 sqm				241.38
	Say				241.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.3.2	1:6 (1 cement: 6 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.224	2679.10	600.12
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1657.53 W
	Add 1 % Water charges on "W"				16.58
	TOTAL				1674.10 X
	Add GST (multiplying factor 0.1405) on "X"				235.21
	TOTAL				1909.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				286.40
	Total				2195.71 Z
	Add Cess @ 1% on "Z"				21.96
	Cost of 10.00 sqm				2217.67
	Cost of 1.00 sqm				221.77
	Say				221.75
13.4	12 mm cement plaster of mix :				
13.4.1	1:4 (1 cement: 4 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.144	3815.05	549.37
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1361.29 W
	Add 1 % Water charges on "W"				13.61
	TOTAL				1374.90 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				193.17
	TOTAL				1568.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				235.21
	Total				1803.29 Z
	Add Cess @ 1% on "Z"				18.03
	Cost of 10.00 sqm				1821.32
	Cost of 1.00 sqm				182.13
	Say				182.15
13.4.2	1:6 (1 cement: 6 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.144	3160.60	455.13
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1267.05 W
	Add 1 % Water charges on "W"				12.67
	TOTAL				1279.72 X
	Add GST (multiplying factor 0.1405) on "X"				179.80
	TOTAL				1459.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				218.93
	Total				1678.45 Z
	Add Cess @ 1% on "Z"				16.78
	Cost of 10.00 sqm				1695.23
	Cost of 1.00 sqm				169.52
	Say				169.50
13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
13.5.1	1:4 (1 cement: 4 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of	cum	0.172	3815.05	656.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	SH: Mortars				
	LABOUR				
0040	Mason (average)	day	0.8	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1580.96 W
	Add 1 % Water charges on "W"				15.81
	TOTAL				1596.77 X
	Add GST (multiplying factor 0.1405) on "X"				224.35
	TOTAL				1821.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				273.17
	Total				2094.28 Z
	Add Cess @ 1% on "Z"				20.94
	Cost of 10.00 sqm				2115.23
	Cost of 1.00 sqm				211.52
	Say				211.50
13.5.2	1:6 (1 cement: 6 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.172	3160.60	543.62
	LABOUR				
0040	Mason (average)	day	0.8	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1468.40 W
	Add 1 % Water charges on "W"				14.68
	TOTAL				1483.08 X
	Add GST (multiplying factor 0.1405) on "X"				208.37
	TOTAL				1691.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				253.72
	Total				1945.17 Z
	Add Cess @ 1% on "Z"				19.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				1964.62
	Cost of 1.00 sqm				196.46
	Say				196.45
13.6	20 mm cement plaster of mix :				
13.6.1	1:4 (1 cement: 4 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3815.05	854.57
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1911.98 W
	Add 1 % Water charges on "W"				19.12
	TOTAL				1931.10 X
	Add GST (multiplying factor 0.1405) on "X"				271.32
	TOTAL				2202.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				330.36
	Total				2532.78 Z
	Add Cess @ 1% on "Z"				25.33
	Cost of 10.00 sqm				2558.11
	Cost of 1.00 sqm				255.81
	Say				255.80
13.6.2	1:6 (1 cement: 6 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.224	3160.60	707.98
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1765.38 W
	Add 1 % Water charges on "W"				17.65
	TOTAL				1783.04 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				250.52
	TOTAL				2033.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				305.03
	Total				2338.59 Z
	Add Cess @ 1% on "Z"				23.39
	Cost of 10.00 sqm				2361.97
	Cost of 1.00 sqm				236.20
	Say				236.20
13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
13.7.1	1:3 (1 cement: 3 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.144	3988.00	574.27
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1690.74 W
	Add 1 % Water charges on "W"				16.91
	TOTAL				1707.65 X
	Add GST (multiplying factor 0.1405) on "X"				239.92
	TOTAL				1947.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				292.14
	Total				2239.71 Z
	Add Cess @ 1% on "Z"				22.40
	Cost of 10.00 sqm				2262.10
	Cost of 1.00 sqm				226.21
	Say				226.20
13.7.2	1:4 (1 cement: 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.144	3333.55	480.03
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1596.50 W
	Add 1 % Water charges on "W"				15.96
	TOTAL				1612.46 X
	Add GST (multiplying factor 0.1405) on "X"				226.55
	TOTAL				1839.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				275.85
	Total				2114.87 Z
	Add Cess @ 1% on "Z"				21.15
	Cost of 10.00 sqm				2136.01
	Cost of 1.00 sqm				213.60
	Say				213.60
13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :				
13.8.1	1:3 (1 cement: 3 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.172	3988.00	685.94
	LABOUR				
0040	Mason (average)	day	0.8	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1915.25 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				19.15
	TOTAL				1934.41 X
	Add GST (multiplying factor 0.1405) on "X"				271.78
	TOTAL				2206.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				330.93
	Total				2537.12 Z
	Add Cess @ 1% on "Z"				25.37
	Cost of 10.00 sqm				2562.49
	Cost of 1.00 sqm				256.25
	Say				256.25
13.8.2	1:4 (1 cement: 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.172	3333.55	573.37
	LABOUR				
0040	Mason (average)	day	0.80	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1802.69 W
	Add 1 % Water charges on "W"				18.03
	TOTAL				1820.72 X
	Add GST (multiplying factor 0.1405) on "X"				255.81
	TOTAL				2076.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				311.48
	Total				2388.00 Z
	Add Cess @ 1% on "Z"				23.88
	Cost of 10.00 sqm				2411.88
	Cost of 1.00 sqm				241.19
	Say				241.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.				
13.9.1	12 mm cement plaster				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4469.50	643.61
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1760.08 W
	Add 1 % Water charges on "W"				17.60
	TOTAL				1777.68 X
	Add GST (multiplying factor 0.1405) on "X"				249.76
	TOTAL				2027.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				304.12
	Total				2331.56 Z
	Add Cess @ 1% on "Z"				23.32
	Cost of 10.00 sqm				2354.87
	Cost of 1.00 sqm				235.49
	Say				235.50
13.9.2	20 mm cement plaster				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.224	4469.50	1001.17
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				2363.12 W
	Add 1 % Water charges on "W"				23.63
	TOTAL				2386.76 X
	Add GST (multiplying factor 0.1405) on "X"				335.34
	TOTAL				2722.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				408.31
	Total				3130.41 Z
	Add Cess @ 1% on "Z"				31.30
	Cost of 10.00 sqm				3161.71
	Cost of 1.00 sqm				316.17
	Say				316.15
13.10	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.172	4469.50	768.75
	LABOUR				
0040	Mason (average)	day	0.80	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				1998.07 W
	Add 1 % Water charges on "W"				19.98
	TOTAL				2018.05 X
	Add GST (multiplying factor 0.1405) on "X"				283.54
	TOTAL				2301.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				345.24
	Total				2646.83 Z
	Add Cess @ 1% on "Z"				26.47
	Cost of 10.00 sqm				2673.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				267.33
	Say				267.35
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).				
	Detail of cost for 10 sqm				
	MATERIAL				
	Under layer Cement mortar				
	1 : 5 (1 cement : 5 coarse sand)				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.144	3462.65	498.62
	Top layer Cement mortar 1 : 6				
	(1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.072	2679.10	192.90
	LABOUR				
0040	Mason (average)	day	1.21	374.50	453.15
0018	Coolie	day	1.29	320.83	413.87
0011	Bhisti	day	1.05	320.83	336.87
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1920.62 W
	Add 1 % Water charges on "W"				19.21
	TOTAL				1939.83 X
	Add GST (multiplying factor 0.1405) on "X"				272.55
	TOTAL				2212.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				331.86
	Total				2544.23 Z
	Add Cess @ 1% on "Z"				25.44
	Cost of 10.00 sqm				2569.68
	Cost of 1.00 sqm				256.97
	Say				256.95

13.12 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.

Detail of cost for 10 sqm

MATERIAL

Under layer Cement mortar 1 : 5

(1 cement : 5 coarse sand)

3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.144	3462.65	498.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Top layer Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.072	4469.50	321.80
	LABOUR				
0040	Mason (average)	day	1.21	374.50	453.15
0018	Coolie	day	1.29	320.83	413.87
0011	Bhisti	day	1.05	320.83	336.87
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				2049.53 W
	Add 1 % Water charges on "W"				20.50
	TOTAL				2070.03 X
	Add GST (multiplying factor 0.1405) on "X"				290.84
	TOTAL				2360.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				354.13
	Total				2715.00 Z
	Add Cess @ 1% on "Z"				27.15
	Cost of 10.00 sqm				2742.15
	Cost of 1.00 sqm				274.21
	Say				274.20
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:2 (1 Cement : 2 stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.144	4913.10	707.49
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1519.41 W
	Add 1 % Water charges on "W"				15.19
	TOTAL				1534.60 X
	Add GST (multiplying factor 0.1405) on "X"				215.61
	TOTAL				1750.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				262.53
	Total				2012.75 Z
	Add Cess @ 1% on "Z"				20.13
	Cost of 10.00 sqm				2032.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				203.29
	Say				203.30
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:2 (1 Cement : 2 stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.172	4913.10	845.05
	LABOUR				
0040	Mason (average)	day	0.80	374.50	299.60
0018	Coolie	day	0.88	320.83	282.33
0011	Bhisti	day	0.99	320.83	317.62
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1769.83 W
	Add 1 % Water charges on "W"				17.70
	TOTAL				1787.52 X
	Add GST (multiplying factor 0.1405) on "X"				251.15
	TOTAL				2038.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				305.80
	Total				2344.47 Z
	Add Cess @ 1% on "Z"				23.44
	Cost of 10.00 sqm				2367.92
	Cost of 1.00 sqm				236.79
	Say				236.80
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:2 (1 Cement : 2 stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.224	4913.10	1100.54
	LABOUR				
0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				2157.94 W
	Add 1 % Water charges on "W"				21.58
	TOTAL				2179.52 X
	Add GST (multiplying factor 0.1405) on "X"				306.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2485.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				372.86
	Total				2858.61 Z
	Add Cess @ 1% on "Z"				28.59
	Cost of 10.00 sqm				2887.20
	Cost of 1.00 sqm				288.72
	Say				288.70
13.16	6 mm cement plaster of mix :				
13.16.1	1:3 (1 cement : 3 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.072	3988.00	287.14
	LABOUR				
0040	Mason (average)	day	0.51	374.50	191.00
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc. complete.	L.S.	13.39	2.00	26.78
9999	Scaffolding and sundries	L.S.	11.70	2.00	23.40
	TOTAL				1064.10 W
	Add 1 % Water charges on "W"				10.64
	TOTAL				1074.74 X
	Add GST (multiplying factor 0.1405) on "X"				151.00
	TOTAL				1225.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				183.86
	Total				1409.60 Z
	Add Cess @ 1% on "Z"				14.10
	Cost of 10.00 sqm				1423.70
	Cost of 1.00 sqm				142.37
	Say				142.35
13.17	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.072	3988.00	287.14
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0040	Mason (average)	day	0.51	374.50	191.00
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc. complete.	L.S.	13.39	2.00	26.78
9999	Scaffolding and sundries	L.S.	11.70	2.00	23.40
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
776	Satna lime	quintal	0.01	370.00	3.70
9999	Indigo gum etc	L.S.	2.08	2.00	4.16
9999	Sundries ladder etc.	L.S.	0.52	2.00	1.04
0038	White Washer	day	0.07	320.83	22.46
0018	Coolie	day	0.07	320.83	22.46
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				1427.92 W
	Add 1 % Water charges on "W"				14.28
	TOTAL				1442.20 X
	Add GST (multiplying factor 0.1405) on "X"				202.63
	TOTAL				1644.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				246.72
	Total				1891.55 Z
	Add Cess @ 1% on "Z"				18.92
	Cost of 10.00 sqm				1910.47
	Cost of 1.00 sqm				191.05
	Say				191.05
13.18	Neat cement punning.				
	Detail of cost for 10 sqm				
	LABOUR				
367	Portland Cement (OPC-43 grade)	tonne	0.022	4940.00	108.68
2209	Carriage of Cement	tonne	0.022	94.34	2.08
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				314.61 W
	Add 1 % Water charges on "W"				3.15
	TOTAL				317.76 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				44.65
	TOTAL				362.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.36
	Total				416.77 Z
	Add Cess @ 1% on "Z"				4.17
	Cost of 10.00 sqm				420.93
	Cost of 1.00 sqm				42.09
	Say				42.10
13.19	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.				
13.19.1	Ordinary cement finish using ordinary cement				
	Detail of cost for 10 sqm				
	MATERIAL				
	Under layer 12 mm thick cement plaster Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of	cum	0.144	3815.05	549.37
	SH: Mortars				
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	9.88	2.00	19.76
	Top layer 10 mm thick cement plaster Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.12	3988.00	478.56
0040	Mason (average)	day	0.61	374.50	228.45
0017	Beldar	day	0.69	320.83	221.37
0011	Bhisti	day	0.85	320.83	272.71
9999	Scaffolding and sundries	L.S.	9.88	2.00	19.76
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	0.10	900.00	90.00
0011	Bhisti	day	0.01	320.83	3.21
777	Dry hydrated lime (factory made)	quintal	0.09	290.00	26.10
9977	Carriage of lime	L.S.	3.64	2.00	7.28
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
0011	Bhisti	day	0.10	320.83	32.08
9999	Scaffolding and sundries Labour for scooping	L.S.	9.88	2.00	19.76
0023	Mason (brick layer) 1st class	day	0.25	476.00	119.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				3301.98 W
	Add 1 % Water charges on "W"				33.02
	TOTAL				3335.00 X
	Add GST (multiplying factor 0.1405) on "X"				468.57
	TOTAL				3803.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				570.53
	Total				4374.10 Z
	Add Cess @ 1% on "Z"				43.74
	Cost of 10.00 sqm				4417.84
	Cost of 1.00 sqm				441.78
	Say				441.80
13.20	Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely ground hydrated lime by volume of cement.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Under layer 12 mm thick cement plaster Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.144	3815.05	549.37
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	9.88	2.00	19.76
	Top layer 10 mm thick cement plaster				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.12	3988.00	478.56
0040	Mason (average)	day	0.61	374.50	228.45
0017	Beldar	day	0.69	320.83	221.37
0011	Bhisti	day	0.85	320.83	272.71
9999	Scaffolding and sundries	L.S.	9.88	2.00	19.76
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	0.10	900.00	90.00
0011	Bhisti	day	0.01	320.83	3.21
777	Dry hydrated lime (factory made)	quintal	0.09	290.00	26.10
9977	Carriage of lime	L.S.	3.64	2.00	7.28
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
0011	Bhisti	day	0.10	320.83	32.08
9999	Scaffolding and sundries	L.S.	9.88	2.00	19.76
9999	Scaffolding and sundries	L.S.	4.42	2.00	8.84
	TOTAL				3111.61 W
	Add 1 % Water charges on "W"				31.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3142.72 X
	Add GST (multiplying factor 0.1405) on "X"				441.55
	TOTAL				3584.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				537.64
	Total				4121.92 Z
	Add Cess @ 1% on "Z"				41.22
	Cost of 10.00 sqm				4163.14
	Cost of 1.00 sqm				416.31
	Say				416.30
13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.				
	Detail of cost for 12mm cement plaster 1:3 (1 cement :3 sand) = 10 sqm or 1.48 bags of cement used in the mix.				
	Cement required for 10 sqm = 73.89kg. Water proofing material required @ 1 kg per 50 kg of cement = 1.48 kg.				
1213	Water proofing materials	kilogram	1.48	35.00	51.80
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				66.10 W
	Add 1 % Water charges on "W"				0.66
	TOTAL				66.76 X
	Add GST (multiplying factor 0.1405) on "X"				9.38
	TOTAL				76.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.42
	Total				87.56 Z
	Add Cess @ 1% on "Z"				0.88
	Cost of 1.48 bags of cement used in the mix.				88.44
	Cost of 1.00 bag of 50 kg cement used in the mix.				59.76
	Say				59.75
13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.				
	Detail of cost for 10 sqm				
9999	Scaffolding and sundries	L.S.	53.82	2.00	107.64
	LABOUR				
0040	Mason (average)	day	0.20	374.50	74.90
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.10	320.83	32.08
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				325.17 W
	Add 1 % Water charges on "W"				3.25
	TOTAL				328.42 X
	Add GST (multiplying factor 0.1405) on "X"				46.14
	TOTAL				374.57 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				56.19
	Total				430.75 Z
	Add Cess @ 1% on "Z"				4.31
	Cost of 10.00 sqm				435.06
	Cost of 1.00 sqm				43.51
	Say				43.50
13.23	Extra for plastering on circular work not exceeding 6 m in radius:				
13.23.1	In one coat				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	0.20	374.50	74.90
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				153.37 W
	Add 1 % Water charges on "W"				1.53
	TOTAL				154.90 X
	Add GST (multiplying factor 0.1405) on "X"				21.76
	TOTAL				176.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				26.50
	Total				203.16 Z
	Add Cess @ 1% on "Z"				2.03
	Cost of 10.00 sqm				205.19
	Cost of 1.00 sqm				20.52
	Say				20.50
13.23.2	In two coats				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				235.38 W
	Add 1 % Water charges on "W"				2.35
	TOTAL				237.73 X
	Add GST (multiplying factor 0.1405) on "X"				33.40
	TOTAL				271.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.67
	Total				311.80 Z
	Add Cess @ 1% on "Z"				3.12
	Cost of 10.00 sqm				314.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				31.49
	Say				31.50
13.24	Extra for plastering done on moulding, cornices or architraves including neat finish to line and level:				
13.24.1	In one coat				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	3.00	374.50	1123.50
0017	Beldar	day	2.00	320.83	641.66
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.25	320.83	80.21
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				2192.98 W
	Add 1 % Water charges on "W"				21.93
	TOTAL				2214.91 X
	Add GST (multiplying factor 0.1405) on "X"				311.19
	TOTAL				2526.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				378.92
	Total				2905.02 Z
	Add Cess @ 1% on "Z"				29.05
	Cost of 10.00 sqm				2934.07
	Cost of 1.00 sqm				293.41
	Say				293.40
13.24.2	In two coats				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	5.00	374.50	1872.50
0017	Beldar	day	3.00	320.83	962.49
0018	Coolie	day	2.00	320.83	641.66
0011	Bhisti	day	0.33	320.83	105.87
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				3609.30 W
	Add 1 % Water charges on "W"				36.09
	TOTAL				3645.40 X
	Add GST (multiplying factor 0.1405) on "X"				512.18
	TOTAL				4157.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				623.64
	Total				4781.21 Z
	Add Cess @ 1% on "Z"				47.81
	Cost of 10.00 sqm				4829.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				482.90
	Say				482.90
13.25	Extra for plastering:				
13.25.1	Spherical ceiling				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	0.75	374.50	280.88
0017	Beldar	day	0.74	320.83	237.41
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				572.11 W
	Add 1 % Water charges on "W"				5.72
	TOTAL				577.83 X
	Add GST (multiplying factor 0.1405) on "X"				81.19
	TOTAL				659.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				98.85
	Total				757.87 Z
	Add Cess @ 1% on "Z"				7.58
	Cost of 10.00 sqm				765.45
	Cost of 1.00 sqm				76.54
	Say				76.55
13.25.2	Groined ceiling				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	0.80	374.50	299.60
0017	Beldar	day	0.80	320.83	256.66
9999	Sundries	L.S.	34.06	2.00	68.12
	TOTAL				624.38 W
	Add 1 % Water charges on "W"				6.24
	TOTAL				630.63 X
	Add GST (multiplying factor 0.1405) on "X"				88.60
	TOTAL				719.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.88
	Total				827.12 Z
	Add Cess @ 1% on "Z"				8.27
	Cost of 10.00 sqm				835.39
	Cost of 1.00 sqm				83.54
	Say				83.55
13.25.3	Flewing soffits				
	Detail of cost for 10 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				374.45 W
	Add 1 % Water charges on "W"				3.74
	TOTAL				378.19 X
	Add GST (multiplying factor 0.1405) on "X"				53.14
	TOTAL				431.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.70
	Total				496.02 Z
	Add Cess @ 1% on "Z"				4.96
	Cost of 10.00 sqm				500.98
	Cost of 1.00 sqm				50.10
	Say				50.10
13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Plaster of paris 10x0.002x1121 = 22.42kg				
	Add 2% wastage= 0.45kg				
	Total = 22.87kg				
	Say 23kg				
869	Plaster of Paris	kilogram	23.00	5.00	115.00
9977	Carriage of plaster of paris	L.S.	3.90	2.00	7.80
	LABOUR				
0022	Mason (for plaster of paris work) 1st class	day	0.91	476.00	433.16
0017	Beldar	day	0.91	320.83	291.96
9999	Scaffolding and sundries	L.S.	83.98	2.00	167.96
	TOTAL				1015.88 W
	Add 1 % Water charges on "W"				10.16
	TOTAL				1026.03 X
	Add GST (multiplying factor 0.1405) on "X"				144.16
	TOTAL				1170.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.53
	Total				1345.72 Z
	Add Cess @ 1% on "Z"				13.46
	Cost of 10.00 sqm				1359.18
	Cost of 1.00 sqm				135.92
	Say				135.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.27	Extra for lining out plaster to imitate stone or concrete blocks walling.				
	Detail of cost for 10 sqm				
	LABOUR				
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9999	Solution of lime putty	L.S.	1.82	2.00	3.64
	TOTAL				351.31 W
	Add 1 % Water charges on "W"				3.51
	TOTAL				354.82 X
	Add GST (multiplying factor 0.1405) on "X"				49.85
	TOTAL				404.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				60.70
	Total				465.37 Z
	Add Cess @ 1% on "Z"				4.65
	Cost of 10.00 sqm				470.02
	Cost of 1.00 sqm				47.00
	Say				47.00
13.28	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):				
13.28.1	Flush Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.014	3333.55	46.67
	LABOUR				
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				253.31 W
	Add 1 % Water charges on "W"				2.53
	TOTAL				255.84 X
	Add GST (multiplying factor 0.1405) on "X"				35.95
	TOTAL				291.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.77
	Total				335.56 Z
	Add Cess @ 1% on "Z"				3.36
	Cost of 10.00 metre long and 10 cm wide band				338.91
	Cost of 1.00 metre long and 1 cm wide band				3.39
	Say				3.40
13.28.2	Sunk Band				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.014	3333.55	46.67
	LABOUR				
0040	Mason (average)	day	0.30	374.50	112.35
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	2.08	2.00	4.16
	TOTAL				275.47 W
	Add 1 % Water charges on "W"				2.75
	TOTAL				278.22 X
	Add GST (multiplying factor 0.1405) on "X"				39.09
	TOTAL				317.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.60
	Total				364.91 Z
	Add Cess @ 1% on "Z"				3.65
	Cost of 10.00 metre long and 10 cm wide band				368.56
	Cost of 1.00 metre long and 1 cm wide band				3.69
	Say				3.70
13.28.3	Raised Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.014	3333.55	46.67
	LABOUR				
0040	Mason (average)	day	0.35	374.50	131.08
0018	Coolie	day	0.35	320.83	112.29
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				311.54 W
	Add 1 % Water charges on "W"				3.12
	TOTAL				314.65 X
	Add GST (multiplying factor 0.1405) on "X"				44.21
	TOTAL				358.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				53.83
	Total				412.69 Z
	Add Cess @ 1% on "Z"				4.13
	Cost of 10.00 metre long and 10 cm wide band				416.82
	Cost of 1.00 metre long and 1 cm wide band				4.17
	Say				4.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.28.4	Moulded Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.014	3333.55	46.67
	LABOUR				
0040	Mason (average)	day	0.65	374.50	243.43
0018	Coolie	day	0.65	320.83	208.54
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				517.80 W
	Add 1 % Water charges on "W"				5.18
	TOTAL				522.97 X
	Add GST (multiplying factor 0.1405) on "X"				73.48
	TOTAL				596.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				89.47
	Total				685.92 Z
	Add Cess @ 1% on "Z"				6.86
	Cost of 10.00 metre long and 10 cm wide band				692.78
	Cost of 1.00 metre long and 1 cm wide band				6.93
	Say				6.95
13.29	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand):				
13.29.1	Flush Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.02	3333.55	66.67
	LABOUR				
0040	Mason (average)	day	0.32	374.50	119.84
0018	Coolie	day	0.32	320.83	102.67
0011	Bhisti	day	0.06	320.83	19.25
9999	Sundries	L.S.	2.08	2.00	4.16
	TOTAL				312.59 W
	Add 1 % Water charges on "W"				3.13
	TOTAL				315.71 X
	Add GST (multiplying factor 0.1405) on "X"				44.36
	TOTAL				360.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.01
	Total				414.08 Z
	Add Cess @ 1% on "Z"				4.14
	Cost of 10.00 metre long and 10 cm wide band				418.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 metre long and 1 cm wide band				4.18
	Say				4.20
13.29.2	Sunk Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.02	3333.55	66.67
	LABOUR				
0040	Mason (average)	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
0011	Bhisti	day	0.06	320.83	19.25
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				341.70 W
	Add 1 % Water charges on "W"				3.42
	TOTAL				345.12 X
	Add GST (multiplying factor 0.1405) on "X"				48.49
	TOTAL				393.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.04
	Total				452.65 Z
	Add Cess @ 1% on "Z"				4.53
	Cost of 10.00 metre long and 10 cm wide band				457.17
	Cost of 1.00 metre long and 1 cm wide band				4.57
	Say				4.55
13.29.3	Raised Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.02	3333.55	66.67
	LABOUR				
0040	Mason (average)	day	0.42	374.50	157.29
0018	Coolie	day	0.42	320.83	134.75
0011	Bhisti	day	0.06	320.83	19.25
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				386.80 W
	Add 1 % Water charges on "W"				3.87
	TOTAL				390.67 X
	Add GST (multiplying factor 0.1405) on "X"				54.89
	TOTAL				445.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.83
	Total				512.39 Z
	Add Cess @ 1% on "Z"				5.12
	Cost of 10.00 metre long and 10 cm wide band				517.51
	Cost of 1.00 metre long and 1 cm wide band				5.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				5.20
13.29.4	Moulded Band				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 5 (1 cement : 5 coarse sand)				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.024	3462.65	83.10
	LABOUR				
0040	Mason (average)	day	0.86	374.50	322.07
0018	Coolie	day	0.86	320.83	275.91
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				702.59 W
	Add 1 % Water charges on "W"				7.03
	TOTAL				709.61 X
	Add GST (multiplying factor 0.1405) on "X"				99.70
	TOTAL				809.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				121.40
	Total				930.71 Z
	Add Cess @ 1% on "Z"				9.31
	Cost of 10.00 metre long and 10 cm wide band				940.02
	Cost of 1.00 metre long and 1 cm wide band				9.40
	Say				9.40
13.30	18 mm thick moulded cement mortar band in two coats under layer 12 mm thick with cement mortar 1:5 (1 cement : 5 coarse sand) top layer 6 mm thick with cement mortar 1:4 (1 cement : 4 fine sand).				
	Detail of cost for 10 metre long and 10 cm wide band				
	MATERIAL				
	Cement mortar 1 : 5 (1 cement : 5 coarse sand)				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.014	3462.65	48.48
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.01	3333.55	33.34
	LABOUR				
0040	Mason (average)	day	0.86	374.50	322.07
0018	Coolie	day	0.86	320.83	275.91
0011	Bhisti	day	0.05	320.83	16.04
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				701.30 W
	Add 1 % Water charges on "W"				7.01
	TOTAL				708.31 X
	Add GST (multiplying factor 0.1405) on "X"				99.52
	TOTAL				807.83 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				121.17
	Total				929.00 Z
	Add Cess @ 1% on "Z"				9.29
	Cost of 10.00 metre long and 10 cm wide band				938.29
	Cost of 1.00 metre long and 1 cm wide band				9.38
	Say				9.40
13.31	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand):				
13.31.1	Flush / Ruled/ Struck or weathered pointing				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.03	3988.00	119.64
	LABOUR				
0040	Mason (average)	day	0.50	374.50	187.25
0018	Coolie	day	0.60	320.83	192.50
0011	Bhisti	day	0.93	320.83	298.37
9999	Sundries	L.S.	7.15	2.00	14.30
9999	Scaffolding and racking out joints including sundries	L.S.	14.3	2.00	28.60
	TOTAL				840.66 W
	Add 1 % Water charges on "W"				8.41
	TOTAL				849.07 X
	Add GST (multiplying factor 0.1405) on "X"				119.29
	TOTAL				968.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.25
	Total				1113.61 Z
	Add Cess @ 1% on "Z"				11.14
	Cost of 10.00 sqm				1124.75
	Cost of 1.00 sqm				112.48
	Say				112.50
13.31.2	Raised and cut pointing				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.046	3988.00	183.45
	LABOUR				
0040	Mason (average)	day	1.07	374.50	400.72
0018	Coolie	day	1.31	320.83	420.29
0011	Bhisti	day	1.00	320.83	320.83
9999	Sundries	L.S.	7.15	2.00	14.30
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				1371.82 W
	Add 1 % Water charges on "W"				13.72
	TOTAL				1385.54 X
	Add GST (multiplying factor 0.1405) on "X"				194.67
	TOTAL				1580.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				237.03
	Total				1817.24 Z
	Add Cess @ 1% on "Z"				18.17
	Cost of 10.00 sqm				1835.41
	Cost of 1.00 sqm				183.54
	Say				183.55

13.32 Pointing on tile brick work with cement mortar 1:3 (1 cement : 3 fine sand):

13.32.1 Flush/ Ruled/ Struck or weathered pointing

Detail of cost for 10 sqm

MATERIAL

Cement mortar 1 : 3 (1 cement : 3 fine sand)

3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.046	3988.00	183.45
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.80	320.83	256.66
0011	Bhisti	day	1.28	320.83	410.66
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				1148.23 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				11.48
	TOTAL				1159.71 X
	Add GST (multiplying factor 0.1405) on "X"				162.94
	TOTAL				1322.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				198.40
	Total				1521.05 Z
	Add Cess @ 1% on "Z"				15.21
	Cost of 10.00 sqm				1536.26
	Cost of 1.00 sqm				153.63
	Say				153.65
13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :				
13.33.1	Flush/ Ruled pointing				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.023	3988.00	91.72
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0040	Mason (average)	day	0.92	374.50	344.54
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.93	320.83	298.37
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				1220.71 W
	Add 1 % Water charges on "W"				12.21
	TOTAL				1232.92 X
	Add GST (multiplying factor 0.1405) on "X"				173.23
	TOTAL				1406.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				210.92
	Total				1617.07 Z
	Add Cess @ 1% on "Z"				16.17
	Cost of 10.00 sqm				1633.24
	Cost of 1.00 sqm				163.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				163.30
13.33.2	Raised and cut pointing				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.038	3988.00	151.54
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0040	Mason (average)	day	2.00	374.50	749.00
0018	Coolie	day	2.96	320.83	949.66
0011	Bhisti	day	1.00	320.83	320.83
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				2217.57 W
	Add 1 % Water charges on "W"				22.18
	TOTAL				2239.75 X
	Add GST (multiplying factor 0.1405) on "X"				314.68
	TOTAL				2554.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				383.16
	Total				2937.60 Z
	Add Cess @ 1% on "Z"				29.38
	Cost of 10.00 sqm				2966.97
	Cost of 1.00 sqm				296.70
	Say				296.70
13.34	Raised and cut pointing on stone work in white cement mortar 1:3 (1 white cement : 3 marble dust).				
	Detail of cost for 10 sqm				
	MATERIAL				
	White Cement mortar 1:3 (1 white cement : 3 marble dust)				
3.16	Rate as per Item Number 3.16 of SH: Mortars	cum	0.038	7426.70	282.21
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
0040	Mason (average)	day	2.00	374.50	749.00
0018	Coolie	day	2.96	320.83	949.66
0011	Bhisti	day	1.00	320.83	320.83
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				2348.24 W
	Add 1 % Water charges on "W"				23.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2371.72 X
	Add GST (multiplying factor 0.1405) on "X"				333.23
	TOTAL				2704.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				405.74
	Total				3110.69 Z
	Add Cess @ 1% on "Z"				31.11
	Cost of 10.00 sqm				3141.80
	Cost of 1.00 sqm				314.18
	Say				314.20
13.35	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement : 2 fine sand):				
13.35.1	Flush/ Ruled pointing				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1:2 (1 cement : 2 fine sand)				
3.2	Rate as per Item Number 3.2 of SH: Mortars	cum	0.015	4723.10	70.85
	LABOUR				
0040	Mason (average)	day	0.47	374.50	176.02
0018	Coolie	day	0.69	320.83	221.37
0011	Bhisti	day	0.59	320.83	189.29
9999	Scaffolding and racking out joints including sundries	L.S.	16.12	2.00	32.24
	TOTAL				689.76 W
	Add 1 % Water charges on "W"				6.90
	TOTAL				696.66 X
	Add GST (multiplying factor 0.1405) on "X"				97.88
	TOTAL				794.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				119.18
	Total				913.72 Z
	Add Cess @ 1% on "Z"				9.14
	Cost of 10.00 sqm				922.86
	Cost of 1.00 sqm				92.29
	Say				92.30
13.36	Extra for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 3 m or part there of.				
	Detail of cost for 10 sqm				
	LABOUR				
9999	Scaffolding	L.S.	13.39	2	26.78
9999	Sundries	L.S.	13.39	2	26.78
	TOTAL				53.56 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				0.54
	TOTAL				54.10 X
	Add GST (multiplying factor 0.1405) on "X"				7.60
	TOTAL				61.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.25
	Total				70.95 Z
	Add Cess @ 1% on "Z"				0.71
	Cost of 10.00 sqm				71.66
	Cost of 1.00 sqm				7.17
	Say				7.15
13.37	White washing with lime to give an even shade :				
13.37.1	New work (three or more coats)				
	Detail of cost for 10 sqm				
	MATERIAL				
775	Dehradun white lime	quintal	0.03	600.00	18.00
9977	Carriage of lime	L.S.	0.91	2.00	1.82
	LABOUR				
0038	White Washer	day	0.20	320.83	64.17
0018	Coolie	day	0.10	320.83	32.08
9999	Indigo gum etc	L.S.	4.42	2.00	8.84
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				130.37 W
	Add 1 % Water charges on "W"				1.30
	TOTAL				131.67 X
	Add GST (multiplying factor 0.1405) on "X"				18.50
	TOTAL				150.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.53
	Total				172.70 Z
	Add Cess @ 1% on "Z"				1.73
	Cost of 10.00 sqm				174.43
	Cost of 1.00 sqm				17.44
	Say				17.45
13.38	Satna lime wash on walls with one coat.				
	Detail of cost for 10 sqm				
	MATERIAL				
776	Satna lime	quintal	0.01	370.00	3.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of lime	L.S.	2.08	2.00	4.16
9999	Indigo gum etc	L.S.	0.52	2.00	1.04
	LABOUR				
0038	White Washer	day	0.08	320.83	25.67
0018	Coolie	day	0.04	320.83	12.83
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				52.86 W
	Add 1 % Water charges on "W"				0.53
	TOTAL				53.39 X
	Add GST (multiplying factor 0.1405) on "X"				7.50
	TOTAL				60.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.13
	Total				70.02 Z
	Add Cess @ 1% on "Z"				0.70
	Cost of 10.00 sqm				70.72
	Cost of 1.00 sqm				7.07
	Say				7.05
13.39	Colour washing such as green, blue or buff to give an even shade :				
13.39.1	New work (two or more coats) with a base coat of white washing with lime				
	Detail of cost for 10 sqm				
	MATERIAL				
775	Dehradun white lime	quintal	0.03	600.00	18.00
9977	Carriage of lime	L.S.	8.06	2.00	16.12
9999	Add for colouring stuff	L.S.	0.91	2.00	1.82
	LABOUR				
0038	White Washer	day	0.30	320.83	96.25
0018	Coolie	day	0.10	320.83	32.08
9999	Indigo gum etc	L.S.	4.42	2.00	8.84
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				178.57 W
	Add 1 % Water charges on "W"				1.79
	TOTAL				180.36 X
	Add GST (multiplying factor 0.1405) on "X"				25.34
	TOTAL				205.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				236.55 Z
	Add Cess @ 1% on "Z"				2.37
	Cost of 10.00 sqm				238.92
	Cost of 1.00 sqm				23.89
	Say				23.90
13.39.2	New work (two or more coats) with a base coat of whitening				
	Detail of cost for 10 sqm				
	MATERIAL				
775	Dehradun white lime	quintal	0.03	600.00	18.00
9977	Carriage of lime	L.S.	8.06	2.00	16.12
9999	Add for colouring stuff	L.S.	0.91	2.00	1.82
	LABOUR				
0038	White Washer	day	0.30	320.83	96.25
0018	Coolie	day	0.10	320.83	32.08
9999	Indigo gum etc	L.S.	2.73	2.00	5.46
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				175.19 W
	Add 1 % Water charges on "W"				1.75
	TOTAL				176.94 X
	Add GST (multiplying factor 0.1405) on "X"				24.86
	TOTAL				201.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.27
	Total				232.08 Z
	Add Cess @ 1% on "Z"				2.32
	Cost of 10.00 sqm				234.40
	Cost of 1.00 sqm				23.44
	Say				23.45
13.40	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.				
	Detail of cost for 10 sqm				
	MATERIAL				
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/lit.	litre	0.70	50.00	35.00
9999	Putty, glue etc	L.S.	2.73	2.00	5.46
	For distempering				
815	Dry distemper	kilogram	1.50	30.00	45.00
9977	Carriage of material	L.S.	1.56	2.00	3.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
	LABOUR				
0031	Painter	day	0.80	374.50	299.60
0018	Coolie	day	0.40	320.83	128.33
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				541.47 W
	Add 1 % Water charges on "W"				5.41
	TOTAL				546.89 X
	Add GST (multiplying factor 0.1405) on "X"				76.84
	TOTAL				623.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.56
	Total				717.28 Z
	Add Cess @ 1% on "Z"				7.17
	Cost of 10.00 sqm				724.46
	Cost of 1.00 sqm				72.45
	Say				72.45
13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer				
	Detail of cost for 10 sqm				
	MATERIAL				
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/lit.	litre	0.70	50.00	35.00
9999	Brushes, putty etc	L.S.	7.15	2.00	14.30
9988	Sundries including Carriage	L.S.	8.06	2.00	16.12
816	Oil bound washable distemper/ Acrylic distemper	kilogram	1.50	50.00	75.00
9977	Carriage of material	L.S.	4.42	2.00	8.84
9999	Brushes, sand paper and putty for filling holes	L.S.	11.7	2.00	23.40
	LABOUR				
0031	Painter	day	1.00	374.50	374.50
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				723.70 W
	Add 1 % Water charges on "W"				7.24
	TOTAL				730.93 X
	Add GST (multiplying factor 0.1405) on "X"				102.70
	TOTAL				833.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				125.04
	Total				958.67 Z
	Add Cess @ 1% on "Z"				9.59
	Cost of 10.00 sqm				968.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				96.83
	Say				96.85
13.42	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
13.42.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				
816	Oil bound washable distemper/ Acrylic distemper	kilogram	1.50	50.00	75.00
9977	Carriage of material	L.S.	4.42	2.00	8.84
9999	Brushes, sand paper and putty for filling holes	L.S.	11.57	2.00	23.14
	LABOUR				
0031	Painter	day	0.40	374.50	149.80
0017	Beldar	day	0.46	320.83	147.58
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				420.48 W
	Add 1 % Water charges on "W"				4.20
	TOTAL				424.69 X
	Add GST (multiplying factor 0.1405) on "X"				59.67
	TOTAL				484.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				72.65
	Total				557.01 Z
	Add Cess @ 1% on "Z"				5.57
	Cost of 10.00 sqm				562.58
	Cost of 1.00 sqm				56.26
	Say				56.25
13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
13.43.1	Water thinnable cement primer				
	Detail of cost for 10 sqm				
	MATERIAL				
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/lit.	litre	0.70	50.00	35.00
9999	Brushes, putty etc	L.S.	7.15	2.00	14.30
	LABOUR				
0031	Painter	day	0.40	374.50	149.80
0018	Coolie	day	0.20	320.83	64.17
9988	Sundries including carriage	L.S.	8.06	2.00	16.12
	TOTAL				279.39 W
	Add 1 % Water charges on "W"				2.79
	TOTAL				282.18 X
	Add GST (multiplying factor 0.1405) on "X"				39.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				321.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.27
	Total				370.10 Z
	Add Cess @ 1% on "Z"				3.70
	Cost of 10.00 sqm				373.80
	Cost of 1.00 sqm				37.38
	Say				37.40
13.44	Finishing walls with water proofing cement paint of required shade :				
13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)				
	Detail of cost for 10 sqm				
	MATERIAL				
851	Water proofing cement paint	kilogram	3.84	38.00	145.92
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.46	374.50	172.27
0018	Coolie	day	0.23	320.83	73.79
0011	Bhisti	day	0.10	320.83	32.08
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				457.60 W
	Add 1 % Water charges on "W"				4.58
	TOTAL				462.18 X
	Add GST (multiplying factor 0.1405) on "X"				64.94
	TOTAL				527.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.07
	Total				606.18 Z
	Add Cess @ 1% on "Z"				6.06
	Cost of 10.00 sqm				612.25
	Cost of 1.00 sqm				61.22
	Say				61.20
13.45	Finishing walls with textured exterior paint of required shade :				
13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm				
	Detail of cost for 10 sqm				
	MATERIAL				
8507	Textured exterior paint	litre	3.28	240.00	787.20
809	Exterior primer	kilogram	2.20	140.00	308.00
9977	Carriage of material	L.S.	1.56	2.00	3.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.02	2.00	14.04
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				1465.47 W
	Add 1 % Water charges on "W"				14.65
	TOTAL				1480.13 X
	Add GST (multiplying factor 0.1405) on "X"				207.96
	TOTAL				1688.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				253.21
	Total				1941.30 Z
	Add Cess @ 1% on "Z"				19.41
	Cost of 10.00 sqm				1960.71
	Cost of 1.00 sqm				196.07
	Say				196.05
13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)				
	Detail of cost for 10 sqm				
	MATERIAL				
8505	Acrylic exterior paint	litre	1.67	170.00	283.90
809	Exterior Primer	Kg	2.20	140.00	308.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				962.43 W
	Add 1 % Water charges on "W"				9.62
	TOTAL				972.05 X
	Add GST (multiplying factor 0.1405) on "X"				136.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1108.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.29
	Total				1274.92 Z
	Add Cess @ 1% on "Z"				12.75
	Cost of 10.00 sqm				1287.67
	Cost of 1.00 sqm				128.77
	Say				128.75
13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)				
	Detail of cost for 10 sqm				
	MATERIAL				
8506	Premium Acrylic exterior paint	litre	1.43	180.00	257.40
809	Exterior primer	kilogram	2.20	140.00	308.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				935.93 W
	Add 1 % Water charges on "W"				9.36
	TOTAL				945.29 X
	Add GST (multiplying factor 0.1405) on "X"				132.81
	TOTAL				1078.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.72
	Total				1239.82 Z
	Add Cess @ 1% on "Z"				12.40
	Cost of 10.00 sqm				1252.22
	Cost of 1.00 sqm				125.22
	Say				125.20
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Detail of cost for 10 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8504	Multi surface paint	litre	1.25	255.00	318.75
8509	Special Primer (C.W.)	litre	0.75	140.00	105.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.02	2.00	14.04
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				794.02 W
	Add 1 % Water charges on "W"				7.94
	TOTAL				801.96 X
	Add GST (multiplying factor 0.1405) on "X"				112.68
	TOTAL				914.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				137.20
	Total				1051.83 Z
	Add Cess @ 1% on "Z"				10.52
	Cost of 10.00 sqm				1062.35
	Cost of 1.00 sqm				106.23
	Say				106.25
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture				
	Detail of cost for 10 sqm				
	MATERIAL				
8504	Multi surface paint	litre	0.90	255.00	229.50
8509	Special Primer (C.W.)	litre	0.75	140.00	105.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.02	2.00	14.04
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				704.77 W
	Add 1 % Water charges on "W"				7.05
	TOTAL				711.82 X
	Add GST (multiplying factor 0.1405) on "X"				100.01
	TOTAL				811.83 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				121.77
	Total				933.60 Z
	Add Cess @ 1% on "Z"				9.34
	Cost of 10.00 sqm				942.94
	Cost of 1.00 sqm				94.29
	Say				94.30
13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture				
	Detail of cost for 10 sqm				
	MATERIAL				
8504	Multi surface paint	litre	0.90	255.00	229.50
8510	Metal Primer (U.G.)	litre	0.80	90.00	72.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.30	320.83	96.25
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.02	2.00	14.04
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				671.77 W
	Add 1 % Water charges on "W"				6.72
	TOTAL				678.49 X
	Add GST (multiplying factor 0.1405) on "X"				95.33
	TOTAL				773.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				116.07
	Total				889.89 Z
	Add Cess @ 1% on "Z"				8.90
	Cost of 10.00 sqm				898.79
	Cost of 1.00 sqm				89.88
	Say				89.90
13.48A	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives.				
13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.				
	Details of cost for 10 sqm (Based on item no 13.47				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
836	100% Premium acrylic dirt resistance, Silicone additives exterior paint	litre	1.43	270.00	386.10
837	Acrylic Exterior Primer	litre	0.90	100.00	90.00
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.45	374.50	168.53
0011	Bhisti	day	0.45	320.83	144.37
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				822.54 W
	Add 1 % Water charges on "W"				8.23
	TOTAL				830.76 X
	Add GST (multiplying factor 0.1405) on "X"				116.72
	TOTAL				947.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.12
	Total				1089.61 Z
	Add Cess @ 1% on "Z"				10.90
	Cost of 10.00 sqm				1100.51
	Cost of 1.00 sqm				110.05
	Say				110.05
13.50	Applying priming coat:				
13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)				
	Detail of cost for 10 sqm				
	MATERIAL				
823	Pink primer (for wood)	litre	0.75	105.00	78.75
9999	Putty	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				291.06 W
	Add 1 % Water charges on "W"				2.91
	TOTAL				293.97 X
	Add GST (multiplying factor 0.1405) on "X"				41.30
	TOTAL				335.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.29
	Total				385.57 Z
	Add Cess @ 1% on "Z"				3.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				389.42
	Cost of 1.00 sqm				38.94
	Say				38.95
13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood				
	Detail of cost for 10 sqm				
	MATERIAL				
4201	Aluminium primer	litre	0.75	110.00	82.50
9999	Putty	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				294.81 W
	Add 1 % Water charges on "W"				2.95
	TOTAL				297.76 X
	Add GST (multiplying factor 0.1405) on "X"				41.84
	TOTAL				339.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.94
	Total				390.54 Z
	Add Cess @ 1% on "Z"				3.91
	Cost of 10.00 sqm				394.44
	Cost of 1.00 sqm				39.44
	Say				39.45
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works				
	Detail of cost for 10 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.54	110.00	59.40
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.24	374.50	89.88
0018	Coolie	day	0.24	320.83	77.00
9999	Brushes,sand paper including sundries	L.S.	10.79	2.00	21.58
	TOTAL				248.90 W
	Add 1 % Water charges on "W"				2.49
	TOTAL				251.39 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				35.32
	TOTAL				286.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.01
	Total				329.71 Z
	Add Cess @ 1% on "Z"				3.30
	Cost of 10.00 sqm				333.01
	Cost of 1.00 sqm				33.30
	Say				33.30
13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)				
	Detail of cost for 10 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.36	110.00	39.60
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.12	374.50	44.94
0018	Coolie	day	0.12	320.83	38.50
9999	Brushes,sand paper including	L.S.	7.15	2.00	14.30
	TOTAL				138.12 W
	Add 1 % Water charges on "W"				1.38
	TOTAL				139.50 X
	Add GST (multiplying factor 0.1405) on "X"				19.60
	TOTAL				159.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.87
	Total				182.97 Z
	Add Cess @ 1% on "Z"				1.83
	Cost of 10.00 sqm				184.80
	Cost of 1.00 sqm				18.48
	Say				18.50
13.51	Painting with silicon & acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces :				
13.51.1	One coat				
	Detail of cost for 10 sqm				
	MATERIAL				
801	Silicon and acrylic emulsion	litre	1.80	130.00	234.00
9977	Carriage of material	L.S.	0.52	2.00	1.04
9999	Putty etc	L.S.	2.73	2.00	5.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				460.48 W
	Add 1 % Water charges on "W"				4.60
	TOTAL				465.08 X
	Add GST (multiplying factor 0.1405) on "X"				65.34
	TOTAL				530.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.56
	Total				609.99 Z
	Add Cess @ 1% on "Z"				6.10
	Cost of 10.00 sqm				616.09
	Cost of 1.00 sqm				61.61
	Say				61.60
13.51.2	Two coats				
	Detail of cost for 10 sqm				
	MATERIAL				
801	Silicon and acrylic emulsion	litre	2.88	130.00	374.40
9977	Carriage of material	L.S.	0.52	2.00	1.04
9999	Putty etc	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.43	374.50	161.04
0018	Coolie	day	0.43	320.83	137.96
9999	Brushes, sand paper etc	L.S.	8.53	2.00	17.06
9999	Sundries	L.S.	17.26	2.00	34.52
	TOTAL				731.47 W
	Add 1 % Water charges on "W"				7.31
	TOTAL				738.79 X
	Add GST (multiplying factor 0.1405) on "X"				103.80
	TOTAL				842.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				126.39
	Total				968.97 Z
	Add Cess @ 1% on "Z"				9.69
	Cost of 10.00 sqm				978.66
	Cost of 1.00 sqm				97.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				97.85
13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				
13.52.1	On steel work				
	Detail of cost for 10 sqm				
	PRIMING COAT				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.75	110.00	82.50
9999	Putty	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc	L.S.	5.46	2.00	10.92
9999	Sundries	L.S.	10.66	2.00	21.32
	EPOXY PAINTING				
	MATERIAL				
7239	Epoxy paint	litre	1.25	230.00	287.50
9977	Carriage of material	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Putty, brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				990.29 W
	Add 1 % Water charges on "W"				9.90
	TOTAL				1000.19 X
	Add GST (multiplying factor 0.1405) on "X"				140.53
	TOTAL				1140.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				171.11
	Total				1311.83 Z
	Add Cess @ 1% on "Z"				13.12
	Cost of 10.00 sqm				1324.95
	Cost of 1.00 sqm				132.49
	Say				132.50
13.52.2	On concrete work				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 10 sqm				
	PRIMING COAT MATERIAL				
821	Distemper primer	litre	0.84	70.00	58.80
9999	Putty	L.S.	13.52	2.00	27.04
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	8.06	2.00	16.12
	EPOXY PAINTING				
	MATERIAL				
7239	Removing white or colour wash by scrapping and	litre	1.21	230.00	278.30
9999	Materials for filling in holes and cracks	L.S.	6.76	2.00	13.52
9977	Carriage of material	L.S.	1.43	2.00	2.86
	LABOUR				0.00
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Putty, brushes, sand paper etc	L.S.	10.79	2.00	21.58
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				987.55 W
	Add 1 % Water charges on "W"				9.88
	TOTAL				997.43 X
	Add GST (multiplying factor 0.1405) on "X"				140.14
	TOTAL				1137.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				170.63
	Total				1308.20 Z
	Add Cess @ 1% on "Z"				13.08
	Cost of 10.00 sqm				1321.28
	Cost of 1.00 sqm				132.13
	Say				132.15
13.53	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution				
	Detail of cost for 10 sqm				
	PRIMING COAT				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.36	110.00	39.60
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.12	374.50	44.94
0017	Beldar	day	0.12	320.83	38.50
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
	EPOXY PAINTING				
	MATERIAL				
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.80	160.00	128.00
9977	Carriage	L.S.	1.43	2.00	2.86
	LABOUR				0.00
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Putty, brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				674.10 W
	Add 1 % Water charges on "W"				6.74
	TOTAL				680.84 X
	Add GST (multiplying factor 0.1405) on "X"				95.66
	TOTAL				776.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				116.47
	Total				892.97 Z
	Add Cess @ 1% on "Z"				8.93
	Cost of 10.00 sqm				901.90
	Cost of 1.00 sqm				90.19
	Say				90.20
13.54	Applying a coat of mordant solution on G.S. sheet:				
13.54.1	With a solution of 38 gms of copper acetate in a litre of soft water				
	Detail of cost for 25 sqm				
	MATERIAL				
4203	Copper acetate	kilogram	0.038	285.00	10.83
9999	Soft Water	L.S.	1.82	2.00	3.64
9977	Carriage	L.S.	0.91	2.00	1.82
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.60	320.83	192.50
9999	Brushes, sand paper etc	L.S.	35.88	2.00	71.76
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				577.01 W
	Add 1 % Water charges on "W"				5.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				582.78 X
	Add GST (multiplying factor 0.1405) on "X"				81.88
	TOTAL				664.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.70
	Total				764.36 Z
	Add Cess @ 1% on "Z"				7.64
	Cost of 25 sqm				772.00
	Cost of 1.00 sqm				30.88
	Say				30.90
13.54.2	With a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water				
	Detail of cost for 25 sqm				
	MATERIAL				
4204	Hydrochloric acid	kilogram	0.013	33.00	0.43
4205	Copper chloride	kilogram	0.013	270.00	3.51
4206	Copper nitrate	kilogram	0.013	210.00	2.73
4207	Ammonium chloride	kilogram	0.013	20.00	0.26
9999	Soft Water	L.S.	1.82	2.00	3.64
9977	Carriage	L.S.	0.91	2.00	1.82
	LABOUR				
0031	Painter	day	0.60	374.50	224.70
0018	Coolie	day	0.60	320.83	192.50
9999	Brushes, sand paper etc	L.S.	35.88	2.00	71.76
9999	Sundries	L.S.	35.88	2.00	71.76
	TOTAL				573.11 W
	Add 1 % Water charges on "W"				5.73
	TOTAL				578.84 X
	Add GST (multiplying factor 0.1405) on "X"				81.33
	TOTAL				660.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.02
	Total				759.19 Z
	Add Cess @ 1% on "Z"				7.59
	Cost of 25 sqm				766.78
	Cost of 1.00 sqm				30.67
	Say				30.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.55	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture, over and including a priming of ready mixed zinc chromate yellow primer on new work:				
13.55.1	100 mm diameter pipes				
	Detail of cost for 30 mtrs				
	Area=22/7 x106.4mm x30m =10.032sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.54	110.00	59.40
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.24	374.50	89.88
0018	Coolie	day	0.24	320.83	77.00
9999	Brushes, sand paper etc	L.S.	10.79	2.00	21.58
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.95	100.00	95.00
9977	Carriage	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Putty, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
9999	Wire brushes for cleaning	L.S.	5.33	2.00	10.66
9999	Extra for delays	L.S.	61.1	2.00	122.20
	TOTAL				881.88 W
	Add 1 % Water charges on "W"				8.82
	TOTAL				890.70 X
	Add GST (multiplying factor 0.1405) on "X"				125.14
	TOTAL				1015.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				152.38
	Total				1168.21 Z
	Add Cess @ 1% on "Z"				11.68
	Cost of 30.00 mtrs				1179.90
	Cost of 1.00 metre				39.33
	Say				39.35
13.55.2	150 mm diameter pipes				
	Detail of cost for 30 mtrs				
	Area=22/7 x0.1572 m x30m =14.82sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.80	110.00	88.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	15.99	2.00	31.98
9977	Carriage	L.S.	0.91	2.00	1.82
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	1.41	100.00	141.00
9977	Carriage	L.S.	2.08	2.00	4.16
	LABOUR				
0031	Painter	day	0.80	374.50	299.60
0018	Coolie	day	0.80	320.83	256.66
9999	Putty, sand paper etc	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	11.96	2.00	23.92
9999	Wire brushes for cleaning	L.S.	7.15	2.00	14.30
9999	Extra for delays	L.S.	94.12	2.00	188.24
	TOTAL				1316.12 W
	Add 1 % Water charges on "W"				13.16
	TOTAL				1329.28 X
	Add GST (multiplying factor 0.1405) on "X"				186.76
	TOTAL				1516.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				227.41
	Total				1743.46 Z
	Add Cess @ 1% on "Z"				17.43
	Cost of 30.00 mtrs				1760.89
	Cost of 1.00 metre				58.70
	Say				58.70
13.56	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.				
13.56.1	100 mm diameter pipes				
	Detail of cost for 30 mtrs				
	Area=22/7x0.1064m x30m =10.032sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.54	110.00	59.40
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.24	374.50	89.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.24	320.83	77.00
9999	Sundries	L.S.	10.79	2.00	21.58
	MATERIAL				
833	Synthetic enamel paint in black or chocolate shade	litre	1.16	170.00	197.20
9977	Carriage	L.S.	1.43	2.00	2.86
9999	Putty, sand paper etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Sundries	L.S.	6.76	2.00	13.52
9999	Wire brushes for cleaning	L.S.	11.96	2.00	23.92
9999	Extra for delays	L.S.	66.43	2.00	132.86
	TOTAL				1005.40 W
	Add 1 % Water charges on "W"				10.05
	TOTAL				1015.45 X
	Add GST (multiplying factor 0.1405) on "X"				142.67
	TOTAL				1158.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				173.72
	Total				1331.84 Z
	Add Cess @ 1% on "Z"				13.32
	Cost of 30.00 mtrs				1345.16
	Cost of 1.00 metre				44.84
	Say				44.85
13.56.2	150 mm diameter pipes				
	Detail of cost for 30 mtrs				
	Area=22/7 x157.2mm x30m =14.82sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.80	110.00	88.00
9977	Carriage	L.S.	0.65	2.00	1.30
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Sundries	L.S.	15.99	2.00	31.98
	MATERIAL				
833	Synthetic enamel paint in black or chocolate shade	litre	1.72	170.00	292.40
9977	Carriage	L.S.	2.08	2.00	4.16
9999	Putty, sand paper etc	L.S.	7.93	2.00	15.86
	LABOUR				
0031	Painter	day	0.80	374.50	299.60
0018	Coolie	day	0.80	320.83	256.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	10.01	2.00	20.02
9999	Wire brushes for cleaning	L.S.	17.81	2.00	35.62
9999	Extra for delays	L.S.	101.40	2.00	202.80
	TOTAL				1498.72 W
	Add 1 % Water charges on "W"				14.99
	TOTAL				1513.71 X
	Add GST (multiplying factor 0.1405) on "X"				212.68
	TOTAL				1726.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				258.96
	Total				1985.34 Z
	Add Cess @ 1% on "Z"				19.85
	Cost of 30.00 mtrs				2005.20
	Cost of 1.00 metre				66.84
	Say				66.85
13.57	Painting with oil type wood preservative of approved brand and manufacture :				
13.57.1	New work (two or more coats)				
	Detail of cost for 10 sqm				
	MATERIAL				
859	Oil type wood preservative	litre	1.00	130.00	130.00
9977	Carriage of material	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.15	374.50	56.18
0018	Coolie	day	0.15	320.83	48.12
9999	Brushes etc	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	3.90	2.00	7.80
	TOTAL				251.46 W
	Add 1 % Water charges on "W"				2.51
	TOTAL				253.97 X
	Add GST (multiplying factor 0.1405) on "X"				35.68
	TOTAL				289.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.45
	Total				333.11 Z
	Add Cess @ 1% on "Z"				3.33
	Cost of 10.00 sqm				336.44
	Cost of 1.00 sqm				33.64
	Say				33.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.58	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.				
	Detail of cost for 10 sqm				
	MATERIAL				
7240	Fire retardant paint	litre	5.70	260.00	1482.00
9977	Carriage of material	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0017	Beldar	day	0.54	320.83	173.25
9999	Putty, brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				1889.98 W
	Add 1 % Water charges on "W"				18.90
	TOTAL				1908.88 X
	Add GST (multiplying factor 0.1405) on "X"				268.20
	TOTAL				2177.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				326.56
	Total				2503.64 Z
	Add Cess @ 1% on "Z"				25.04
	Cost of 10.00 sqm				2528.67
	Cost of 1.00 sqm				252.87
	Say				252.85
13.59	Coal tarring two coats on new work using 0.16 Litre and 0.12 litre coal tar per sqm in the first coat and second coat respectively.				
	Detail of cost for 10 sqm				
	MATERIAL				
9999	Lime	L.S.	1.43	2.00	2.86
324	Coal Tar	litre	2.8	30.00	84.00
9977	Carriage of material	L.S.	1.43	2.00	2.86
771	Kerosene oil	litre	0.50	50.00	25.00
	LABOUR				
0017	Beldar	day	0.43	320.83	137.96
9999	Brushes etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				274.00 W
	Add 1 % Water charges on "W"				2.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				276.74 X
	Add GST (multiplying factor 0.1405) on "X"				38.88
	TOTAL				315.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.34
	Total				362.96 Z
	Add Cess @ 1% on "Z"				3.63
	Cost of 10.00 sqm				366.59
	Cost of 1.00 sqm				36.66
	Say				36.65
13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :				
13.60.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				
835	Plastic emulsion paint	litre	1.21	200.00	242.00
9999	MATERIAL	L.S.	6.76	2.00	13.52
9977	Carriage of material	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	10.79	2.00	21.58
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				668.96 W
	Add 1 % Water charges on "W"				6.69
	TOTAL				675.65 X
	Add GST (multiplying factor 0.1405) on "X"				94.93
	TOTAL				770.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				115.59
	Total				886.16 Z
	Add Cess @ 1% on "Z"				8.86
	Cost of 10.00 sqm				895.02
	Cost of 1.00 sqm				89.50
	Say				89.50
13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
13.61.1	Two or more coats on new work				
	Detail of cost for 10 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
833	Synthetic enamel paint in black or chocolate shade	litre	1.16	170.00	197.20
9999	MATERIAL	L.S.	5.33	2.00	10.66
9977	Carriage	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				615.84 W
	Add 1 % Water charges on "W"				6.16
	TOTAL				622.00 X
	Add GST (multiplying factor 0.1405) on "X"				87.39
	TOTAL				709.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				106.41
	Total				815.80 Z
	Add Cess @ 1% on "Z"				8.16
	Cost of 10.00 sqm				823.95
	Cost of 1.00 sqm				82.40
	Say				82.40
13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture				
	Detail of cost for 10 sqm				
	MATERIAL				
823	Pink primer (for wood)	litre	0.75	105.00	78.75
9999	Putty	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	10.79	2.00	21.58
	MATERIAL				
833	Synthetic enamel paint in black or chocolate shade	litre	1.16	170.00	197.20
9977	Carriage of paint and material	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				896.24 W
	Add 1 % Water charges on "W"				8.96
	TOTAL				905.20 X
	Add GST (multiplying factor 0.1405) on "X"				127.18
	TOTAL				1032.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				154.86
	Total				1187.24 Z
	Add Cess @ 1% on "Z"				11.87
	Cost of 10.00 sqm				1199.11
	Cost of 1.00 sqm				119.91
	Say				119.90
13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
13.63.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				
826	Aluminium paint	litre	0.80	150.00	120.00
9977	Carriage of paint and material	L.S.	1.43	2.00	2.86
9999	Putty etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	11.96	2.00	23.92
	TOTAL				546.44 W
	Add 1 % Water charges on "W"				5.46
	TOTAL				551.90 X
	Add GST (multiplying factor 0.1405) on "X"				77.54
	TOTAL				629.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				94.42
	Total				723.86 Z
	Add Cess @ 1% on "Z"				7.24
	Cost of 10.00 sqm				731.10
	Cost of 1.00 sqm				73.11
	Say				73.10
13.64	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :				
13.64.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
827	Acid proof paint (chocolate or black)	litre	1.16	225.00	261.00
9977	Carriage of paint	L.S.	1.43	2.00	2.86
9999	Putty etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				679.64 W
	Add 1 % Water charges on "W"				6.80
	TOTAL				686.43 X
	Add GST (multiplying factor 0.1405) on "X"				96.44
	TOTAL				782.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				117.43
	Total				900.31 Z
	Add Cess @ 1% on "Z"				9.00
	Cost of 10.00 sqm				909.31
	Cost of 1.00 sqm				90.93
	Say				90.95
13.65	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :				
13.65.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.95	100.00	95.00
9977	Carriage	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Putty, brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				500.12 W
	Add 1 % Water charges on "W"				5.00
	TOTAL				505.12 X
	Add GST (multiplying factor 0.1405) on "X"				70.97
	TOTAL				576.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				86.41
	Total				662.50 Z
	Add Cess @ 1% on "Z"				6.63
	Cost of 10.00 sqm				669.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				66.91
	Say				66.90
13.66	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade :				
13.66.1	Two or more coats on new work				
	Detail of cost for 10 sqm				
	MATERIAL				
831	Floor enamel paint in all shades except green	litre	1.48	250.00	370.00
9977	Carriage	L.S.	1.43	2.00	2.86
9999	Putty etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				788.64 W
	Add 1 % Water charges on "W"				7.89
	TOTAL				796.52 X
	Add GST (multiplying factor 0.1405) on "X"				111.91
	TOTAL				908.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				136.27
	Total				1044.70 Z
	Add Cess @ 1% on "Z"				10.45
	Cost of 10.00 sqm				1055.15
	Cost of 1.00 sqm				105.51
	Say				105.50
13.67	Varnishing with varnish of approved brand and manufacture :				
13.67.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish				
	Detail of cost for 10 sqm				
	MATERIAL				
856	Ordinary varnish	litre	0.70	100.00	70.00
763	Glue	kilogram	0.07	75.00	5.25
857	Superior copal varnish	litre	1.16	115.00	133.40
9977	Carriage	L.S.	1.43	2.00	2.86
9999	Putty for repair to holes etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.90	374.50	337.05
	(0.36+0.54=0.90)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie (0.36+0.54=0.90)	day	0.90	320.83	288.75
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				875.79 W
	Add 1 % Water charges on "W"				8.76
	TOTAL				884.54 X
	Add GST (multiplying factor 0.1405) on "X"				124.28
	TOTAL				1008.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				151.32
	Total				1160.15 Z
	Add Cess @ 1% on "Z"				11.60
	Cost of 10.00 sqm				1171.75
	Cost of 1.00 sqm				117.17
	Say				117.15
13.67.2	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish				
	Detail of cost for 10 sqm				
	MATERIAL				
856	Ordinary varnish	litre	0.70	100.00	70.00
763	Glue	kilogram	0.07	75.00	5.25
858	Superior spar varnish	litre	1.26	115.00	144.90
9977	Carriage	L.S.	1.43	2.00	2.86
9999	Repair etc	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter (0.36+0.54=0.90)	day	0.90	374.50	337.05
0018	Coolie (0.36+0.54=0.90)	day	0.90	320.83	288.75
9999	Brushes, sand paper etc	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				882.09 W
	Add 1 % Water charges on "W"				8.82
	TOTAL				890.91 X
	Add GST (multiplying factor 0.1405) on "X"				125.17
	TOTAL				1016.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				152.41
	Total				1168.49 Z
	Add Cess @ 1% on "Z"				11.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				1180.18
	Cost of 1.00 sqm				118.02
	Say				118.00
13.68	French spirit polishing :				
13.68.1	Two or more coats on new works including a coat of wood filler				
	Detail of cost for 10 sqm				
	MATERIAL				
1000	Spirit	litre	1.63	48.00	78.24
9999	Pigment	L.S.	7.15	2.00	14.30
999	Shellac	kilogram	0.24	300.00	72.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
9999	White woolen cloth, putty	L.S.	16.12	2.00	32.24
9999	Sand paper cotton etc	L.S.	13.39	2.00	26.78
9999	Linseed oil	L.S.	1.43	2.00	2.86
	LABOUR				
0031	Painter	day	3.50	374.50	1310.75
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				1558.75 W
	Add 1 % Water charges on "W"				15.59
	TOTAL				1574.34 X
	Add GST (multiplying factor 0.1405) on "X"				221.19
	TOTAL				1795.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				269.33
	Total				2064.86 Z
	Add Cess @ 1% on "Z"				20.65
	Cost of 10.00 sqm				2085.51
	Cost of 1.00 sqm				208.55
	Say				208.55
13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :				
13.69.1	New work				
	Detail of cost for 10 sqm				
	MATERIAL				
855	Wax polish (ready made)	kilogram	0.50	230.00	115.00
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.80	374.50	299.60
0018	Coolie	day	0.80	320.83	256.66
9999	Soap, brushes, cloth etc	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				694.66 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				6.95
	TOTAL				701.61 X
	Add GST (multiplying factor 0.1405) on "X"				98.58
	TOTAL				800.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				120.03
	Total				920.21 Z
	Add Cess @ 1% on "Z"				9.20
	Cost of 10.00 sqm				929.42
	Cost of 1.00 sqm				92.94
	Say				92.95
13.70	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.				
	Detail of cost for 10 sqm				
	MATERIAL				
855	Wax polish (ready made)	kilogram	0.10	230.00	23.00
	LABOUR				
0031	Painter	day	0.40	374.50	149.80
0018	Coolie	day	0.40	320.83	128.33
9999	Acetic acid soap, cloth etc	L.S.	5.33	2.00	10.66
9988	Sundries including Carriage	L.S.	8.06	2.00	16.12
	TOTAL				327.91 W
	Add 1 % Water charges on "W"				3.28
	TOTAL				331.19 X
	Add GST (multiplying factor 0.1405) on "X"				46.53
	TOTAL				377.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.66
	Total				434.38 Z
	Add Cess @ 1% on "Z"				4.34
	Cost of 10.00 sqm				438.73
	Cost of 1.00 sqm				43.87
	Say				43.85
13.71	Lettering with black Japan paint of approved brand and manufacture				
	Detail of cost for 100 letters of 15 cm height				
	MATERIAL				
829	Black Japan paint	litre	0.56	90.00	50.40
9977	Carriage	L.S.	0.91	2.00	1.82
	LABOUR				
0031	Painter	day	6.00	374.50	2247.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	2.00	320.83	641.66
9999	Painting brushes, turpentine, stencil etc	L.S.	13.39	2.00	26.78
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				2983.78 W
	Add 1 % Water charges on "W"				29.84
	TOTAL				3013.62 X
	Add GST (multiplying factor 0.1405) on "X"				423.41
	TOTAL				3437.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				515.55
	Total				3952.59 Z
	Add Cess @ 1% on "Z"				39.53
	Cost of 100 letters of 15 cm height				3992.11
	Cost of 1 letters of 1 cm height				2.66
	Say				2.65
13.72	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-incharge (payment for providing grooves shall be made separately).				
	Detail of cost for 10 sqm				
	MATERIAL				
	Under layer 12 mm cement plaster with Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.144	3815.05	549.37
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0017	Beldar	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding	L.S.	8.97	2.00	17.94
	Applying cement slurry				
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
0017	Beldar	day	0.25	320.83	80.21
	Top layer 15 mm thick stone chipping plaster				
	Quantity required = 0.172 cum including wastage				
	Preparation of cement concrete mix 1:1/2:2 (1 cement : 1/2 coarse sand :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2 stone chipping 10 mm nominal size)				
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.14	1150.00	161.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.14	106.13	14.86
982	Coarse sand	cum	0.04	1350.00	54.00
2203	Carriage of Coarse sand	cum	0.04	106.13	4.25
367	Portland Cement (OPC-43 grade)	tonne	0.10	4940.00	494.00
2209	Carriage of Cement	tonne	0.10	94.34	9.43
0017	Beldar	day	0.10	320.83	32.08
0011	Bhisti	day	0.05	320.83	16.04
9999	Hire and running charges of mechanical mixer	L.S.	4.29	2.00	8.58
9999	Sundries	L.S.	2.08	2.00	4.16
	LABOUR				
0023	Mason (brick layer) 1st class	Day	1.75	476.00	833.00
0017	Beldar	Day	1.75	320.83	561.45
0011	Bhisti	Day	0.30	320.83	96.25
9999	Scaffolding	L.S.	24.44	2.00	48.88
	Labour for washing				
0023	Mason (brick layer) 1st class	Day	1.00	476.00	476.00
0018	Coolie	Day	0.50	320.83	160.42
9999	Sundries soft brushes etc	L.S.	25.22	2.00	50.44
	TOTAL				4559.74 W
	Add 1 % Water charges on "W"				45.60
	TOTAL				4605.34 X
	Add GST (multiplying factor 0.1405) on "X"				647.05
	TOTAL				5252.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				787.86
	Total				6040.25 Z
	Add Cess @ 1% on "Z"				60.40
	Cost of 10.00 sqm				6100.65
	Cost of 1.00 sqm				610.06
	Say				610.05
13.73	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :				
13.73.1	15 mm wide and 15 mm deep groove				
	Detail of cost for 30 mtrs				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Second class kail wood in plank 30 x0.015 x0.015m =6.75cudm Wastage @ 10% = 0.68 Total = 7.43 cudm Assuming that the battens shall become unserviceable after using 5 times Cost for using once = 7.43 / 5 = 1.48 cudm MATERIAL				
1198	Second class kail wood in planks	10 cudm	0.148	260.00	38.48
9977	Carriage of wood	L.S.	0.39	2.00	0.78
	Labour for making battens				
0015	Carpenter 2nd class	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	2.86	2.00	5.72
	Labour for nailing the battens to under layer and finishing and repairing grooves				
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0017	Beldar	day	0.70	320.83	224.58
9999	Nails and cement mortar	L.S.	71.76	2.00	143.52
	TOTAL				850.58 W
	Add 1 % Water charges on "W"				8.51
	TOTAL				859.09 X
	Add GST (multiplying factor 0.1405) on "X"				120.70
	TOTAL				979.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				146.97
	Total				1126.76 Z
	Add Cess @ 1% on "Z"				11.27
	Cost of 30.00 mtrs				1138.02
	Cost of 1.00 metre				37.93
	Say				37.95

13.73.2 20 mm wide and 15 mm deep groove

Detail of cost for 30 mtrs
Second class kail wood in plank
30 x0.02 x0.015m =9.00 cudm
Wastage @ 10% = 0.90
Total = 9.90 cudm
Assuming that the battens shall become
unserviceable after using 5 times
Cost for using once = 9.9 / 5 = 1.98 cudm
MATERIAL

1198	Second class kail wood in planks	10 cudm	0.198	260.00	51.48
9977	Carriage of wood	L.S.	0.52	2.00	1.04
	Labour for making battens				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0015	Carpenter 2nd class	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	2.86	2.00	5.72
	Labour for nailing the battens to under layer and finishing and repairing grooves				
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0017	Beldar	day	0.70	320.83	224.58
9999	Nails and cement mortar	L.S.	71.76	2.00	143.52
	TOTAL				863.84 W
	Add 1 % Water charges on "W"				8.64
	TOTAL				872.48 X
	Add GST (multiplying factor 0.1405) on "X"				122.58
	TOTAL				995.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				149.26
	Total				1144.32 Z
	Add Cess @ 1% on "Z"				11.44
	Cost of 30.00 mtrs				1155.76
	Cost of 1.00 metre				38.53
	Say				38.55
13.74	Extra for washed grit plaster on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.				
	Detail of cost for 10 sqm				
	MATERIAL				
9999	Scaffolding	L.S.	215.28	2.00	430.56
0023	Mason (brick layer) 1st class	day	0.30	476.00	142.80
0017	Beldar	day	0.30	320.83	96.25
0011	Bhisti	day	0.15	320.83	48.12
9999	Sundries	L.S.	28.60	2.00	57.20
	TOTAL				774.93 W
	Add 1 % Water charges on "W"				7.75
	TOTAL				782.68 X
	Add GST (multiplying factor 0.1405) on "X"				109.97
	TOTAL				892.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				133.90
	Total				1026.55 Z
	Add Cess @ 1% on "Z"				10.27
	Cost of 10.00 sqm				1036.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				103.68
	Say				103.70
13.75	Extra for washed stone grit plaster on circular work not exceeding 6 m in radius (in two coats).				
	Detail of cost for 10 sqm				
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	53.82	2.00	107.64
	TOTAL				506.06 W
	Add 1 % Water charges on "W"				5.06
	TOTAL				511.12 X
	Add GST (multiplying factor 0.1405) on "X"				71.81
	TOTAL				582.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				87.44
	Total				670.37 Z
	Add Cess @ 1% on "Z"				6.70
	Cost of 10.00 sqm				677.07
	Cost of 1.00 sqm				67.71
	Say				67.70
13.76	Forming groove of uniform size from 12x12 mm and upto 25x15 mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.				
	Detail of cost for 30 mtrs				
	Aluminium channel section 15 x 15 x 2 mm				
	(weight 0.221 kg/mtr)				
	Qty = 30 + 5% wastage = 31.5 m @ 0.221 kg/m =				
	6.96 kg.				
7306	Aluminium T or L sections	kilogram	6.96	190.00	1322.40
9977	Carriage of timber Labour for fixing	L.S.	38.98	2.00	77.96
0020	Assistant Fitter or 2nd class Fitter	day	0.46	374.50	172.27
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	2.86	2.00	5.72
9999	Nails and cement mortar	L.S.	71.76	2.00	143.52
	TOTAL				1769.99 W
	Add 1 % Water charges on "W"				17.70
	TOTAL				1787.69 X
	Add GST (multiplying factor 0.1405) on "X"				251.17
	TOTAL				2038.87 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				305.83
	Total				2344.70 Z
	Add Cess @ 1% on "Z"				23.45
	Cost of 30.00 mtrs				2368.14
	Cost of 1.00 metre				78.94
	Say				78.95
13.77	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Add for				
368	White Cement	tonne	0.10	11200.00	1120.00
	Deduct for ordinary cement				
367	Portland Cement (OPC-43 grade)	tonne	-0.10	4940.00	-494.00
	TOTAL				626.00 W
	Add 1 % Water charges on "W"				6.26
	TOTAL				632.26 X
	Add GST (multiplying factor 0.1405) on "X"				88.83
	TOTAL				721.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				108.16
	Total				829.26 Z
	Add Cess @ 1% on "Z"				8.29
	Cost of 10.00 sqm				837.55
	Cost of 1.00 sqm				83.75
	Say				83.75
13.78	Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite/ perlite respectively conforming to IS: 2547 (Part - 1 & II) 1976, applied on hacked / uneven background such as bare brick/ block/ RCC work on walls & ceiling at all floors and locations, finished in smooth line and level etc. complete.				
	Detail of cost for 10 sqm				
	MATERIAL				
	Premixed super white gypsum plaster @ 16.14kg /sqm = 61.40 + 5% wastage = 161.40+8.07= 169.47 kg				
868	Premixed super white gypsum plaster.	kg	169.47	6.00	1016.82
	LABOUR				
0040	Mason (average)	day	1.20	374.50	449.40
0018	Coolie	day	1.20	320.83	385.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1876.44 W
	Add 1 % Water charges on "W"				18.76
	TOTAL				1895.20 X
	Add GST (multiplying factor 0.1405) on "X"				266.28
	TOTAL				2161.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				324.22
	Total				2485.70 Z
	Add Cess @ 1% on "Z"				24.86
	Cost of 10.00 sqm				2510.55
	Cost of 1.00 sqm				251.06
	Say				251.05
13.79	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/ mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.				
	Detail of cost for per bag of 50 kg of cement used in mortar				
	MATERIAL				
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	0.125	400.00	50.00
	including labour for mixing				50.00 W
	TOTAL				
	Add 1 % Water charges on "W"				0.50
	TOTAL				50.50 X
	Add GST (multiplying factor 0.1405) on "X"				7.10
	TOTAL				57.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				8.64
	Total				66.23 Z
	Add Cess @ 1% on "Z"				0.66
	Cost per bag of cement				66.90
	Say				66.90
13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Detail of cost for 10 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
824	Cement base wall care putty	kg	14.58	13.00	189.54
	10x0.001x1429 = 14.29kg				
	Add 2% wastage= 0.29kg				
	Total = 14.58kg Say 14.58 kg				
9977	Carriage	L.S.	3.90	2.00	7.80
	LABOUR				
0022	Mason (for plaster of paris work) 1st class	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
9999	Scaffolding and sundries	L.S.	40.00	2.00	80.00
	TOTAL				635.91 W
	Add 1 % Water charges on "W"				6.36
	TOTAL				642.27 X
	Add GST (multiplying factor 0.1405) on "X"				90.24
	TOTAL				732.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				109.88
	Total				842.39 Z
	Add Cess @ 1% on "Z"				8.42
	Cost of 10.00 sqm				850.81
	Cost of 1.00 sqm				85.08
	Say				85.10
13.81	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
13.81.1	One coat				
	Detail of cost for 10 sqm				
	MATERIAL				
802	Acrylic distemper 1st quality , having VOC content less than 50 gm/kg	Kg	0.62	36.00	22.32
9999	Brushes, putty etc.	L.S.	0.52	2.00	1.04
9988	Sundries including carriage	L.S.	10.79	2.00	21.58
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Scaffolding and sundries	L.S.	7.15	2.00	14.30
	TOTAL				237.37 W
	Add 1 % Water charges on "W"				2.37
	TOTAL				239.74 X
	Add GST (multiplying factor 0.1405) on "X"				33.68
	TOTAL				273.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.01
	Total				314.44 Z
	Add Cess @ 1% on "Z"				3.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				317.58
	Cost of 1.00 sqm				31.76
	Say				31.75
13.81.2	Two coats				
	Detail of cost for 10 sqm				
	MATERIAL				
802	Acrylic distemper 1st quality, having VOC content less than 50 gm/kg	Kg	0.99	36.00	35.64
9999	Brushes, putty etc.	L.S.	11.57	2.00	23.14
9988	Sundries including carriage	L.S.	4.42	2.00	8.84
	LABOUR				
0031	Painter	day	0.4	374.50	149.80
0018	Coolie	day	0.46	320.83	147.58
9999	Scaffolding and sundries	L.S.	8.06	2.00	16.12
	TOTAL				381.12 W
	Add 1 % Water charges on "W"				3.81
	TOTAL				384.93 X
	Add GST (multiplying factor 0.1405) on "X"				54.08
	TOTAL				439.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.85
	Total				504.87 Z
	Add Cess @ 1% on "Z"				5.05
	Cost of 10.00 sqm				509.92
	Cost of 1.00 sqm				50.99
	Say				51.00
13.82	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
13.82.1	One coat				
	Detail of cost for 10 sqm				
	MATERIAL				
803	Acrylic emulsion , having VOC content less than 50 gm/ltr	litre	0.53	94.00	49.82
9999	MATERIAL	L.S.	0.52	2.00	1.04
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes, sand paper etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				341.48 W
	Add 1 % Water charges on "W"				3.41
	TOTAL				344.89 X
	Add GST (multiplying factor 0.1405) on "X"				48.46
	TOTAL				393.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.00
	Total				452.35 Z
	Add Cess @ 1% on "Z"				4.52
	Cost of 10.00 sqm				456.88
	Cost of 1.00 sqm				45.69
	Say				45.70
13.82.2	Two coats				
	Detail of cost for 10 sqm				
	MATERIAL				
803	Acrylic emulsion , having VOC content less than 50 gm/ltr	litre	0.84	94.00	78.96
9999	MATERIAL	L.S.	1.43	2.00	2.86
9977	Carriage of material	L.S.	6.76	2.00	13.52
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc.	L.S.	10.79	2.00	21.58
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				505.92 W
	Add 1 % Water charges on "W"				5.06
	TOTAL				510.98 X
	Add GST (multiplying factor 0.1405) on "X"				71.79
	TOTAL				582.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				87.42
	Total				670.19 Z
	Add Cess @ 1% on "Z"				6.70
	Cost of 10.00 sqm				676.89
	Cost of 1.00 sqm				67.69
	Say				67.70
13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
13.83.1	One coat				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 10 sqm				
	MATERIAL				
804	Premium acrylic emulsion of interior grade, having VOC content less than 50 gm/ltr.	litre	0.38	220.00	83.60
9999	MATERIAL	L.S.	0.52	2.00	1.04
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				366.42 W
	Add 1 % Water charges on "W"				3.66
	TOTAL				370.08 X
	Add GST (multiplying factor 0.1405) on "X"				52.00
	TOTAL				422.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				63.31
	Total				485.39 Z
	Add Cess @ 1% on "Z"				4.85
	Cost of 10.00 sqm				490.25
	Cost of 1.00 sqm				49.02
	Say				49.00
13.83.2	Two coats				
	Detail of cost for 10 sqm				
	MATERIAL				
804	Premium acrylic emulsion of interior grade, having VOC content less than 50 gm/ltr.	litre	0.60	220.00	132.00
9999	MATERIAL	L.S.	1.43	2.00	2.86
9977	Carriage of material	L.S.	6.76	2.00	13.52
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
0018	Coolie	day	0.54	320.83	173.25
9999	Brushes, sand paper etc.	L.S.	10.79	2.00	21.58
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				558.96 W
	Add 1 % Water charges on "W"				5.59
	TOTAL				564.55 X
	Add GST (multiplying factor 0.1405) on "X"				79.32
	TOTAL				643.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				96.58
	Total				740.45 Z
	Add Cess @ 1% on "Z"				7.40
	Cost of 10.00 sqm				747.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				74.79
	Say				74.80
13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
13.85.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre				
	Detail of cost for 10 sqm				
	MATERIAL				
806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 gms/lit.	litre	0.75	105.00	78.75
9999	Putty	L.S.	2.73	2.00	5.46
9977	Carriage of material	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
9999	Brushes, sand paper etc.	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				291.06 W
	Add 1 % Water charges on "W"				2.91
	TOTAL				293.97 X
	Add GST (multiplying factor 0.1405) on "X"				41.30
	TOTAL				335.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.29
	Total				385.57 Z
	Add Cess @ 1% on "Z"				3.86
	Cost of 10.00 sqm				389.42
	Cost of 1.00 sqm				38.94
	Say				38.95
13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre				
	Detail of cost for 10 sqm				
	MATERIAL				
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/lit.	litre	0.70	50.00	35.00
9977	Carriage of material	L.S.	8.06	2.00	16.12
	LABOUR				
0031	Painter	day	0.40	374.50	149.80
0018	Coolie	day	0.20	320.83	64.17
9999	Brushes, sand paper etc.	L.S.	7.15	2.00	14.30
	TOTAL				279.39 W
	Add 1 % Water charges on "W"				2.79
	TOTAL				282.18 X
	Add GST (multiplying factor 0.1405) on "X"				39.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				321.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.27
	Total				370.10 Z
	Add Cess @ 1% on "Z"				3.70
	Cost of 10.00 sqm				373.80
	Cost of 1.00 sqm				37.38
	Say				37.40
13.86	6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar of approved make as per the direction of Engineer-In-Charge.				
	Detail of cost for 10 sqm				
	MATERIAL				
772	White cement based polymer modified self curing compound in powder form i/c 2% wastage	kg	46.00	15.00	690.00
9977	Carriage of white cement based polymer modified self curing compound in powder form	L.S.	7.80	2.00	15.60
	LABOUR				
0040	Mason (average)	day	0.51	374.50	191.00
0018	Coolie	day	0.75	320.83	240.62
9999	Extra for removing burrs, cleaning with wire brushes and pock making with pointed tools etc.	L.S.	13.39	2.00	26.78
9999	Scaffolding and sundries	L.S.	11.70	2.00	23.40
	TOTAL				1187.40 W
	Add 1 % Water charges on "W"				11.87
	TOTAL				1199.27 X
	Add GST (multiplying factor 0.1405) on "X"				168.50
	TOTAL				1367.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				205.17
	Total				1572.93 Z
	Add Cess @ 1% on "Z"				15.73
	Cost of 10.00 sqm				1588.66
	Cost of 1.00 sqm				158.87
	Say				158.85
13.87	White washing with lime to give an even shade :				
13.87.1	Old work (two or more coats)				
	Detail of cost for 10 sqm				
	MATERIAL				
775	Dehradun white lime	quintal	0.02	600.00	12.00
9977	Carriage of lime	L.S.	0.52	2.00	1.04
	LABOUR				
0038	White Washer	day	0.11	320.83	35.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.06	320.83	19.25
9999	Indigo gum etc	L.S.	2.73	2.00	5.46
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				78.50 W
	Add 1 % Water charges on "W"				0.79
	TOTAL				79.29 X
	Add GST (multiplying factor 0.1405) on "X"				11.14
	TOTAL				90.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				13.56
	Total				103.99 Z
	Add Cess @ 1% on "Z"				1.04
	Cost of 10.00 sqm				105.03
	Cost of 1.00 sqm				10.50
	Say				10.50
13.87.2	Old work (one or more coats)				
	Detail of cost for 10 sqm				
	MATERIAL				
775	Dehradun white lime	quintal	0.01	600.00	6.00
9977	Carriage of lime	L.S.	0.52	2.00	1.04
	LABOUR				
0038	White Washer	day	0.07	320.83	22.46
0018	Coolie	day	0.03	320.83	9.62
9999	Indigo gum etc	L.S.	2.08	2.00	4.16
9999	Sundries ladders etc	L.S.	2.73	2.00	5.46
	TOTAL				48.74 W
	Add 1 % Water charges on "W"				0.49
	TOTAL				49.23 X
	Add GST (multiplying factor 0.1405) on "X"				6.92
	TOTAL				56.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				8.42
	Total				64.57 Z
	Add Cess @ 1% on "Z"				0.65
	Cost of 10.00 sqm				65.22
	Cost of 1.00 sqm				6.52
	Say				6.50
13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete				
	Details of cost for 10 sqm.				
	LABOUR				
0017	Beldar	day	0.09	320.83	28.87
0018	Coolie	day	0.04	320.83	12.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.04	320.83	12.83
9999	Sundries such as sand paper and scrapper	L.S.	2.73	2.00	5.46
9999	Repair to scraches	L.S.	1.82	2.00	3.64
	TOTAL				63.64 W
	Add 1 % Water charges on "W"				0.64
	TOTAL				64.28 X
	Add GST (multiplying factor 0.1405) on "X"				9.03
	TOTAL				73.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.00
	Total				84.30 Z
	Add Cess @ 1% on "Z"				0.84
	Cost of 10.00 sqm				85.15
	Cost of 1.00 sqm				8.51
	Say				8.50
13.89	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.				
	Details of cost for 10 sqm.				
	MATERIAL				
815	Dry distemper	kilogram	1.00	30.00	30.00
9977	Carriage of distemper	L.S.	0.91	2.00	1.82
9999	Brushes, sand-paper etc.	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				229.45 W
	Add 1 % Water charges on "W"				2.29
	TOTAL				231.74 X
	Add GST (multiplying factor 0.1405) on "X"				32.56
	TOTAL				264.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.65
	Total				303.95 Z
	Add Cess @ 1% on "Z"				3.04
	Cost of 10.00 sqm				306.98
	Cost of 1.00 sqm				30.70
	Say				30.70
13.9	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :				
13.90.1	Old work (one or more coats)				
	Details of cost for 10 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
816	Oil bound washable distemper/ Acrylic distemper	kilogram	1.00	50.00	50.00
9999	Brushes, putty etc.	L.S.	0.52	2.00	1.04
9988	Sundries including carriage	L.S.	10.79	2.00	21.58
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				265.05 W
	Add 1 % Water charges on "W"				2.65
	TOTAL				267.70 X
	Add GST (multiplying factor 0.1405) on "X"				37.61
	TOTAL				305.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.80
	Total				351.10 Z
	Add Cess @ 1% on "Z"				3.51
	Cost of 10.00 sqm				354.62
	Cost of 1.00 sqm				35.46
	Say				35.45
13.91	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.				
	Details of cost for 10 sqm.				
	LABOUR				
0017	Beldar	day	0.11	320.83	35.29
0018	Coolie	day	0.05	320.83	16.04
0011	Bhisti	day	0.05	320.83	16.04
9999	Scraper, sand paper etc.	L.S.	6.24	2.00	12.48
9999	Sundries including mortar to repair the surface	L.S.	1.82	2.00	3.64
	TOTAL				83.49 W
	Add 1 % Water charges on "W"				0.83
	TOTAL				84.33 X
	Add GST (multiplying factor 0.1405) on "X"				11.85
	TOTAL				96.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.43
	Total				110.60 Z
	Add Cess @ 1% on "Z"				1.11
	Cost of 10.00 sqm				111.71
	Cost of 1.00 sqm				11.17
	Say				11.15
13.92	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.92.1	Old work (one or more coats)				
	Details of cost for 10 sqm.				
	MATERIAL				
845	Roofing paint for iron sheets in red colour	litre	0.46	120.00	55.20
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Putty, brushes sand paper etc.	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				336.20 W
	Add 1 % Water charges on "W"				3.36
	TOTAL				339.56 X
	Add GST (multiplying factor 0.1405) on "X"				47.71
	TOTAL				387.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.09
	Total				445.36 Z
	Add Cess @ 1% on "Z"				4.45
	Cost of 10.00 sqm				449.81
	Cost of 1.00 sqm				44.98
	Say				45.00
13.93	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :				
13.93.1	75 mm diameter pipes				
	Detail of cost for 30 metres				
	Area=22/7 x0.0814m x30m =7.67 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.41	110.00	45.10
9977	Carraige	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.18	374.50	67.41
0018	Coolie	day	0.18	320.83	57.75
9999	Brushes, sand paper etc	L.S.	8.19	2.00	16.38
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.73	100.00	73.00
9977	Carraige	L.S.	1.04	2.00	2.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	0.41	374.50	153.55
0018	Coolie	day	0.41	320.83	131.54
9999	Putty, sand paper etc	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	6.24	2.00	12.48
9999	Wire brushes for cleaning	L.S.	4.42	2.00	8.84
9999	Extra for delays	L.S.	40.3	2.00	80.60
	TOTAL				657.82 W
	Add 1 % Water charges on "W"				6.58
	TOTAL				664.40 X
	Add GST (multiplying factor 0.1405) on "X"				93.35
	TOTAL				757.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				113.66
	Total				871.41 Z
	Add Cess @ 1% on "Z"				8.71
	Cost of 30.00 metres				880.13
	Cost of 1.00 metre				29.34
	Say				29.35
13.94	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :				
13.94.1	75 mm diameter pipes				
	Detail of cost for 30 metres				
	Area=22/7 x0.0814m x30m =7.67 sqm				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.43	100.00	43.00
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Putty, sand paper etc	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	6.24	2.00	12.48
9999	Wire brushes for cleaning	L.S.	4.42	2.00	8.84
9999	Extra for delays	L.S.	26.91	2.00	53.82
	TOTAL				314.98 W
	Add 1 % Water charges on "W"				3.15
	TOTAL				318.13 X
	Add GST (multiplying factor 0.1405) on "X"				44.70
	TOTAL				362.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.42
	Total				417.25 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				4.17
	Cost of 30.00 metres				421.42
	Cost of 1.00 metre				14.05
	Say				14.05
13.94.2	100 mm diameter pipes				
	Details of cost for 30 metres				
	Area = $22/7 \times 106.4 \text{ mm} \times 30 \text{ m} = 10.032 \text{ sqm}$				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.57	100.00	57.00
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Putty, sand paper brushes etc.	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
9999	Wire brushes for cleaning	L.S.	5.33	2.00	10.66
9999	Extra for delay	L.S.	34.06	2.00	68.12
	TOTAL				413.92 W
	Add 1 % Water charges on "W"				4.14
	TOTAL				418.06 X
	Add GST (multiplying factor 0.1405) on "X"				58.74
	TOTAL				476.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.52
	Total				548.31 Z
	Add Cess @ 1% on "Z"				5.48
	Cost of 30.00 metres				553.80
	Cost of 1.00 metre				18.46
	Say				18.45
13.94.3	150 mm diameter pipes				
	Details of cost for 30 metres				
	Area = $22/7 \times 157.2 \text{ mm} \times 30 \text{ m} = 14.82 \text{ sqm}$				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.85	100.00	85.00
9977	Carriage	L.S.	0.65	2.00	1.30
	LABOUR				
0031	Painter	day	0.53	374.50	198.49
0018	Coolie	day	0.53	320.83	170.04
9999	Putty, sand paper brushes etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	11.96	2.00	23.92
9999	Wire brushes for cleaning	L.S.	7.14	2.00	14.28
9999	Extra for delay	L.S.	40.3	2.00	80.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				589.74 W
	Add 1 % Water charges on "W"				5.90
	TOTAL				595.64 X
	Add GST (multiplying factor 0.1405) on "X"				83.69
	TOTAL				679.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				101.90
	Total				781.23 Z
	Add Cess @ 1% on "Z"				7.81
	Cost of 30.00 metres				789.04
	Cost of 1.00 metre				26.30
	Say				26.30
13.95	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :				
13.95.1	75 mm diameter pipes				
	Detail of cost for 30 metres				
	Area=22/7 x0.0814m x30m =7.67 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.41	110.00	45.10
9977	Carriage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.18	374.50	67.41
0018	Coolie	day	0.18	320.83	57.75
9999	Sundries	L.S.	8.19	2.00	16.38
	MATERIAL				
826	Aluminium paint	litre	0.61	150.00	91.50
9977	Carriage	L.S.	1.04	2.00	2.08
9999	Putty, sand paper etc	L.S.	4.16	2.00	8.32
	LABOUR				
0031	Painter	day	0.41	374.50	153.55
0018	Coolie	day	0.41	320.83	131.54
9999	Sundries	L.S.	5.20	2.00	10.40
9999	Wire brushes for cleaning	L.S.	9.10	2.00	18.20
9999	Extra for delays	L.S.	44.85	2.00	89.70
	TOTAL				692.70 W
	Add 1 % Water charges on "W"				6.93
	TOTAL				699.63 X
	Add GST (multiplying factor 0.1405) on "X"				98.30
	TOTAL				797.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				119.69

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				917.62 Z
	Add Cess @ 1% on "Z"				9.18
	Cost of 30.00 metres				926.80
	Cost of 1.00 metre				30.89
	Say				30.90
13.95.2	100 mm diameter pipes				
	Detail of cost for 30 metres				
	Area=22/7 x106.4x30m =10.032sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.54	110.00	59.40
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.24	374.50	89.88
	0.18 x 10.032 / 7.67 = 0.24				
0018	Coolie	day	0.24	320.83	77.00
9999	Sundries MATERIAL	L.S.	10.79	2.00	21.58
826	Aluminium paint	litre	1.16	150.00	174.00
	0.61 x 10.032 / 7.67 = 0.80				
9977	Carriage	L.S.	1.43	2.00	2.86
9999	Putty, sand paper etc	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.54	374.50	202.23
	0.41 x 10.032 / 7.67 = 0.54				
0018	Coolie	day	0.54	320.83	173.25
9999	Sundries	L.S.	6.76	2.00	13.52
9999	Wire brushes for cleaning	L.S.	11.96	2.00	23.92
9999	Extra for delays	L.S.	66.43	2.00	132.86
	TOTAL				982.20 W
	Add 1 % Water charges on "W"				9.82
	TOTAL				992.02 X
	Add GST (multiplying factor 0.1405) on "X"				139.38
	TOTAL				1131.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				169.71
	Total				1301.11 Z
	Add Cess @ 1% on "Z"				13.01
	Cost of 30.00 metres				1314.12
	Cost of 1.00 metre				43.80
	Say				43.80
13.95.3	150 mm diameter pipes				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 30 metres				
	Area=22/7 x157.12x30m =14.82 sqm				
	MATERIAL				
4202	Red oxide Zinc chromate primer	litre	0.80	110.00	88.00
9977	Carriage	L.S.	0.65	2.00	1.30
	LABOUR				
0031	Painter	Day	0.36	374.50	134.82
	0.18 x 14.82 / 7.67 = 0.36				
0018	Coolie	Day	0.36	320.83	115.50
9999	Sundries	L.S.	15.99	2.00	31.98
	MATERIAL				
826	Aluminium paint	litre	1.72	150.00	258.00
	0.61 x 14.82 / 7.67 = 1.72				
9977	Carriage	L.S.	2.08	2.00	4.16
9999	Putty, sand paper etc	L.S.	7.93	2.00	15.86
	LABOUR				
0031	Painter	day	0.80	374.50	299.60
	0.41 x 14.82 / 7.67 = 0.80				
0018	Coolie	day	0.80	320.83	256.66
9999	Sundries	L.S.	10.01	2.00	20.02
9999	Wire brushes for cleaning	L.S.	17.81	2.00	35.62
9999	Extra for delays	L.S.	101.40	2.00	202.80
	TOTAL				1464.32 W
	Add 1 % Water charges on "W"				14.64
	TOTAL				1478.97 X
	Add GST (multiplying factor 0.1405) on "X"				207.79
	TOTAL				1686.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				253.01
	Total				1939.77 Z
	Add Cess @ 1% on "Z"				19.40
	Cost of 30.00 metres				1959.17
	Cost of 1.00 metre				65.31
	Say				65.30
13.96	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :				
13.96.1	75 mm diameter pipes				
	Details of cost for 30 metres				
	Area = 22/7x0.0814 mmx30 m = 7.67 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
826	Aluminium paint	litre	0.35	150.00	52.50
9999	Putty, sand paper etc.	L.S.	0.39	2.00	0.78
9977	Carriage	L.S.	2.08	2.00	4.16
	LABOUR				
0031	Painter	day	0.28	374.50	104.86
0018	Coolie	day	0.28	320.83	89.83
9999	Putty, sand paper brushes etc.	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	6.24	2.00	12.48
9999	Wire brushes for cleaning	L.S.	4.42	2.00	8.84
9999	Extra for delay	L.S.	26.91	2.00	53.82
	TOTAL				335.59 W
	Add 1 % Water charges on "W"				3.36
	TOTAL				338.95 X
	Add GST (multiplying factor 0.1405) on "X"				47.62
	TOTAL				386.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.99
	Total				444.56 Z
	Add Cess @ 1% on "Z"				4.45
	Cost of 30.00 metres				449.00
	Cost of 1.00 metre				14.97
	Say				14.95
13.96.2	100 mm diameter pipes				
	Details of cost for 30 metres				
	Area = $22/7 \times 106.4 \text{ mm} \times 30 \text{ m} = 10.032 \text{ sqm}$				
	MATERIAL				
826	Aluminium paint	litre	0.46	150.00	69.00
9999	Putty, sand paper etc.	L.S.	0.52	2.00	1.04
9977	Carriage	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Putty, sand paper brushes etc.	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
9999	Wire brushes for cleaning	L.S.	5.33	2.00	10.66
9999	Extra for delay	L.S.	34.06	2.00	68.12
	TOTAL				431.38 W
	Add 1 % Water charges on "W"				4.31
	TOTAL				435.69 X
	Add GST (multiplying factor 0.1405) on "X"				61.21
	TOTAL				496.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				571.44 Z
	Add Cess @ 1% on "Z"				5.71
	Cost of 30.00 metres				577.16
	Cost of 1.00 metre				19.24
	Say				19.25
13.96.3	150 mm diameter pipes				
	Details of cost for 30 metres				
	Area = 22/7x157.2 mmx30 m = 14.82 sqm				
	MATERIAL				
826	Aluminium paint	litre	0.68	150.00	102.00
9999	Putty, sand paper etc.	L.S.	0.65	2.00	1.30
9977	Carriage	L.S.	3.90	2.00	7.80
	LABOUR				
0031	Painter	day	0.53	374.50	198.49
0018	Coolie	day	0.53	320.83	170.04
9999	Putty, sand paper brushes etc.	L.S.	7.93	2.00	15.86
9999	Sundries	L.S.	11.96	2.00	23.92
9999	Wire brushes for cleaning	L.S.	7.15	2.00	14.30
9999	Extra for delay	L.S.	40.30	2.00	80.60
	TOTAL				614.30 W
	Add 1 % Water charges on "W"				6.14
	TOTAL				620.45 X
	Add GST (multiplying factor 0.1405) on "X"				87.17
	TOTAL				707.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				106.14
	Total				813.76 Z
	Add Cess @ 1% on "Z"				8.14
	Cost of 30.00 metres				821.90
	Cost of 1.00 metre				27.40
	Say				27.40

13.97 Painting with oil type wood preservative of approved brand and manufacture:

13.97.1 Old work (one or more coats)

Detail of cost for 10 sqm

MATERIAL

859	Oil type wood preservative	litre	0.81	130.00	105.30
9977	Carriage of material	L.S.	0.52	2.00	1.04

LABOUR

0031	Painter	day	0.11	374.50	41.20
0018	Coolie	day	0.11	320.83	35.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes etc	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				193.75 W
	Add 1 % Water charges on "W"				1.94
	TOTAL				195.68 X
	Add GST (multiplying factor 0.1405) on "X"				27.49
	TOTAL				223.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.48
	Total				256.65 Z
	Add Cess @ 1% on "Z"				2.57
	Cost of 10.00 sqm				259.22
	Cost of 1.00 sqm				25.92
	Say				25.90
13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
13.98.1	One or more coats on old work				
	Detail of cost for 10 sqm				
	MATERIAL				
835	Plastic emulsion paint	litre	0.73	200.00	146.00
9999	Material for filling holes and cracks (putty etc.)	L.S.	0.52	2.00	1.04
9977	Carriage of material	L.S.	5.33	2.00	10.66
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				437.66 W
	Add 1 % Water charges on "W"				4.38
	TOTAL				442.04 X
	Add GST (multiplying factor 0.1405) on "X"				62.11
	TOTAL				504.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.62
	Total				579.76 Z
	Add Cess @ 1% on "Z"				5.80
	Cost of 10.00 sqm				585.56
	Cost of 1.00 sqm				58.56
	Say				58.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
13.99.1	One or more coats on old work				
	Detail of cost for 10 sqm				
	MATERIAL				
833	Synthetic enamel paint in black or chocolate shade	litre	0.70	170.00	119.00
9977	Carriage of paint and materials	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Putty	L.S.	2.73	2.00	5.46
9999	Brushes sand paper etc.	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				402.60 W
	Add 1 % Water charges on "W"				4.03
	TOTAL				406.62 X
	Add GST (multiplying factor 0.1405) on "X"				57.13
	TOTAL				463.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.56
	Total				533.32 Z
	Add Cess @ 1% on "Z"				5.33
	Cost of 10.00 sqm				538.65
	Cost of 1.00 sqm				53.87
	Say				53.85
13.1	Painting with aluminium paint of approved brand and manufacture to give an even shade:				
13.100.1	One or more coats on old work				
	Detail of cost for 10 sqm				
	MATERIAL				
826	Aluminium paint	litre	0.46	150.00	69.00
9977	Carriage of paint and material	L.S.	0.52	2.00	1.04
9999	Putty etc	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				352.60 W
	Add 1 % Water charges on "W"				3.53
	TOTAL				356.12 X
	Add GST (multiplying factor 0.1405) on "X"				50.04
	TOTAL				406.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				60.92
	Total				467.08 Z
	Add Cess @ 1% on "Z"				4.67
	Cost of 10.00 sqm				471.76
	Cost of 1.00 sqm				47.18
	Say				47.20

13.101 Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :

13.101.1 One or more coats on old work

Detail of cost for 10 sqm

MATERIAL

827	Acid proof paint (chocolate or black)	litre	0.70	225.00	157.50
9977	Carriage of paint	L.S.	0.52	2.00	1.04
9999	Putty etc	L.S.	2.73	2.00	5.46

LABOUR

0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12

TOTAL 441.10 W

Add 1 % Water charges on "W" 4.41

TOTAL 445.51 X

Add GST (multiplying factor 0.1405) on "X" 62.59

TOTAL 508.10 Y

Add 15 % Contractor's profit and overheads on "Y" 76.22

Total 584.32 Z

Add Cess @ 1% on "Z" 5.84

Cost of 10.00 sqm 590.16

Cost of 1.00 sqm 59.02

Say 59.00

13.102 Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :

13.102.1 One or more coats on old work

Detail of cost for 10 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.57	100.00	57.00
9977	Carriage	L.S.	0.52	2.00	1.04
	LABOUR				0.00
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Putty, brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				335.14 W
	Add 1 % Water charges on "W"				3.35
	TOTAL				338.49 X
	Add GST (multiplying factor 0.1405) on "X"				47.56
	TOTAL				386.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.91
	Total				443.96 Z
	Add Cess @ 1% on "Z"				4.44
	Cost of 10.00 sqm				448.39
	Cost of 1.00 sqm				44.84
	Say				44.85

13.103 French spirit polishing :

13.103.1 One or more coats on old work

Detail of cost for 10 sqm

	MATERIAL				
1000	Spirit	litre	0.98	48.00	47.04
999	Shellac	kilogram	0.13	300.00	39.00
9977	Carriage of materials	L.S.	0.91	2.00	1.82
9999	Turpentine oil sand paper cotton/woolen cloth putty etc.	L.S.	10.79	2.00	21.58
9999	Linseed oil	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	1.76	374.50	659.12
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				785.72 W
	Add 1 % Water charges on "W"				7.86
	TOTAL				793.58 X
	Add GST (multiplying factor 0.1405) on "X"				111.50
	TOTAL				905.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				135.76
	Total				1040.84 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				10.41
	Cost of 10.00 sqm				1051.24
	Cost of 1.00 sqm				105.12
	Say				105.10
13.104	Polishing on wood work with ready made wax polish of approved brand and manufacture :				
13.104.1	Old work				
	Detail of cost for 10 sqm				
	MATERIAL				
855	Wax polish (ready made)	kilogram	0.25	230.00	57.50
9977	Caariage	L.S.	0.39	2.00	0.78
	LABOUR				
0031	Painter	day	0.40	374.50	149.80
0018	Coolie	day	0.40	320.83	128.33
9999	Soap, brushes, cloth etc	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				353.57 W
	Add 1 % Water charges on "W"				3.54
	TOTAL				357.11 X
	Add GST (multiplying factor 0.1405) on "X"				50.17
	TOTAL				407.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.09
	Total				468.37 Z
	Add Cess @ 1% on "Z"				4.68
	Cost of 10.00 sqm				473.06
	Cost of 1.00 sqm				47.31
	Say				47.30

13.105 Re-lettering with black Japan paint of approved brand and manufacture.

Detail of cost for 100 letters of 15 cm height

MATERIAL

829	Black Japan paint	litre	0.37	90.00	33.30
9977	Carriage	L.S.	0.52	2.00	1.04

LABOUR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0031	Painter	day	4.00	374.50	1498.00
0018	Coolie	day	1.00	320.83	320.83
9999	Painting brushes, turpentine, stencil etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				1883.59 W
	Add 1 % Water charges on "W"				18.84
	TOTAL				1902.43 X
	Add GST (multiplying factor 0.1405) on "X"				267.29
	TOTAL				2169.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				325.46
	Total				2495.17 Z
	Add Cess @ 1% on "Z"				24.95
	Cost of 100 letters of 15 cm height				2520.13
	Cost per letter per cm height				1.68
	Say				1.70
13.106	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.				
	Detail of cost for 10 sqm				
	MATERIAL				
829	Black Japan paint	litre	0.70	90.00	63.00
9977	Carriage	L.S.	0.52	2.00	1.04
9999	Putty etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc.	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				346.60 W
	Add 1 % Water charges on "W"				3.47
	TOTAL				350.06 X
	Add GST (multiplying factor 0.1405) on "X"				49.18
	TOTAL				399.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.89
	Total				459.14 Z
	Add Cess @ 1% on "Z"				4.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				463.73
	Cost of 1sqm				46.37
	Say				46.35
13.107	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin:				
13.107.1	32 mm dia				
	Detail of cost for 1 no.				
	MATERIAL				
1314	C.P.brass chain with 32 mm dia rubber plug	each	1.00	40.00	40.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				56.12 W
	Add 1 % Water charges on "W"				0.56
	TOTAL				56.68 X
	Add GST (multiplying factor 0.1405) on "X"				7.96
	TOTAL				64.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.70
	Total				74.34 Z
	Add Cess @ 1% on "Z"				0.74
	Cost of each				75.09
	Say				75.10
13.107.2	40 mm dia				
	Detail of cost for 1 no.				
	MATERIAL				
1315	C.P.brass chain with 40 mm dia rubber plug	each	1.00	40.00	40.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				56.12 W
	Add 1 % Water charges on "W"				0.56
	TOTAL				56.68 X
	Add GST (multiplying factor 0.1405) on "X"				7.96
	TOTAL				64.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.70
	Total				74.34 Z
	Add Cess @ 1% on "Z"				0.74
	Cost of each				75.09
	Say				75.10
13.108	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.				
13.108.1	One or more coats on old work				
	Detail of cost for 10 sqm				
	MATERIAL				
816	Oil bound washable distemper/ Acrylic distemper	kilogram	1.00	50.00	50.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes, putty etc	L.S.	0.52	2.00	1.04
9988	Sundries including carriage of material	L.S.	10.76	2.00	21.52
	LABOUR				
0031	Painter	day	0.22	374.50	82.39
0017	Beldar	day	0.22	320.83	70.58
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				239.83 W
	Add 1 % Water charges on "W"				2.40
	TOTAL				242.23 X
	Add GST (multiplying factor 0.1405) on "X"				34.03
	TOTAL				276.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.44
	Total				317.70 Z
	Add Cess @ 1% on "Z"				3.18
	Cost of 10.00 sqm				320.88
	Cost of 1.00 sqm				32.09
	Say				32.10

13.109 Finishing walls with water proofing cement paint of required shade :

13.109.1 Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.

Detail of cost for 10 sqm

MATERIAL

851	Water proofing cement paint	kilogram	2.20	38.00	83.60
8508	Primer for cement paint	litre	0.80	79.00	63.20
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.46	374.50	172.27
0018	Coolie	day	0.23	320.83	73.79
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				442.44 W
	Add 1 % Water charges on "W"				4.42
	TOTAL				446.87 X
	Add GST (multiplying factor 0.1405) on "X"				62.78
	TOTAL				509.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.45
	Total				586.10 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				5.86
	Cost of 10.00 sqm				591.96
	Cost of 1.00 sqm				59.20
	Say				59.20
13.109.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete.				
	Detail of cost for 10 sqm				
	MATERIAL				
851	Water proofing cement paint	kilogram	2.20	38.00	83.60
9977	Carriage of material	L.S.	1.10	2.00	2.20
	LABOUR				
0031	Painter	day	0.35	374.50	131.08
0018	Coolie	day	0.12	320.83	38.50
0011	Bhisti	day	0.05	320.83	16.04
9999	Brushes, sand paper etc	L.S.	3.15	2.00	6.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				293.84 W
	Add 1 % Water charges on "W"				2.94
	TOTAL				296.77 X
	Add GST (multiplying factor 0.1405) on "X"				41.70
	TOTAL				338.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.77
	Total				389.24 Z
	Add Cess @ 1% on "Z"				3.89
	Cost of 10.00 sqm				393.13
	Cost of 1.00 sqm				39.31
	Say				39.30
13.110	Finishing walls with textured exterior paint of required shade :				
13.110.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.				
	Detail of cost for 10 sqm				
	MATERIAL				
8507	Textured exterior paint	litre	3.28	240.00	787.20
9977	Carriage of material	L.S.	1.56	2.00	3.12
	LABOUR				
0031	Painter	day	0.46	374.50	172.27
0018	Coolie	day	0.23	320.83	73.79
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1066.80 W
	Add 1 % Water charges on "W"				10.67
	TOTAL				1077.47 X
	Add GST (multiplying factor 0.1405) on "X"				151.38
	TOTAL				1228.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				184.33
	Total				1413.18 Z
	Add Cess @ 1% on "Z"				14.13
	Cost of 10.00 sqm				1427.31
	Cost of 1.00 sqm				142.73
	Say				142.75

13.110.2 Old work (One or more coats) applied @ 1.82 ltr/10 sqm.

Detail of cost for 10 sqm

MATERIAL

8507	Textured exterior paint	litre	1.82	240.00	436.80
9977	Carriage of material	L.S.	0.52	2.00	1.04
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				646.39 W
	Add 1 % Water charges on "W"				6.46
	TOTAL				652.85 X
	Add GST (multiplying factor 0.1405) on "X"				91.73
	TOTAL				744.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				111.69
	Total				856.26 Z
	Add Cess @ 1% on "Z"				8.56
	Cost of 10.00 sqm				864.82
	Cost of 1.00 sqm				86.48
	Say				86.50

13.111 Finishing walls with Acrylic Smooth exterior paint of required shade :

13.111.1 Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface

Detail of cost for 10 sqm

MATERIAL

8505	Acrylic exterior paint	litre	1.67	170.00	283.90
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0031	Painter	day	0.46	374.50	172.27
0018	Coolie	day	0.23	320.83	73.79
9999	Brushes, sand paper etc	L.S.	4.81	2.00	9.62
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				552.06 W
	Add 1 % Water charges on "W"				5.52
	TOTAL				557.58 X
	Add GST (multiplying factor 0.1405) on "X"				78.34
	TOTAL				635.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				95.39
	Total				731.31 Z
	Add Cess @ 1% on "Z"				7.31
	Cost of 10.00 sqm				738.62
	Cost of 1.00 sqm				73.86
	Say				73.85

13.111.2 Old work (One or more coat applied @ 0.90 ltr/10 sqm).

Detail of cost for 10 sqm

MATERIAL

8505	Acrylic exterior paint	litre	0.90	170.00	153.00
9977	Carriage of material	L.S.	0.52	2.00	1.04

LABOUR

0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12

TOTAL 362.59 W

Add 1 % Water charges on "W" 3.63

TOTAL 366.21 X

Add GST (multiplying factor 0.1405) on "X" 51.45

TOTAL 417.66 Y

Add 15 % Contractor's profit and overheads on "Y" 62.65

Total 480.31 Z

Add Cess @ 1% on "Z" 4.80

Cost of 10.00 sqm 485.12

Cost of 1.00 sqm 48.51

Say 48.50

13.112 Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface				
	Detail of cost for 10 sqm				
	MATERIAL				
8506	Premium Acrylic exterior paint	litre	1.43	180.00	257.40
9977	Carriage of material	L.S.	1.04	2.00	2.08
	LABOUR				
0031	Painter	day	0.46	374.50	172.27
0018	Coolie	day	0.23	320.83	73.79
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				535.96 W
	Add 1 % Water charges on "W"				5.36
	TOTAL				541.32 X
	Add GST (multiplying factor 0.1405) on "X"				76.06
	TOTAL				617.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				92.61
	Total				709.98 Z
	Add Cess @ 1% on "Z"				7.10
	Cost of 10.00 sqm				717.08
	Cost of 1.00 sqm				71.71
	Say				71.70
13.112.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm).				
	Detail of cost for 10 sqm				
	MATERIAL				
8506	Premium Acrylic exterior paint	litre	0.83	180.00	149.40
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0031	Painter	day	0.33	374.50	123.59
0018	Coolie	day	0.17	320.83	54.54
9999	Brushes, sand paper etc	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				359.77 W
	Add 1 % Water charges on "W"				3.60
	TOTAL				363.36 X
	Add GST (multiplying factor 0.1405) on "X"				51.05
	TOTAL				414.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.16
	Total				476.58 Z
	Add Cess @ 1% on "Z"				4.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 sqm				481.34
	Cost of 1.00 sqm				48.13
	Say				48.15
13.113	Varnishing with varnish of approved brand and manufacture:				
13.113.1	One or more coats with copal varnish				
	Detail of cost for 10 sqm				
	MATERIAL				
857	Superior copal varnish	litre	0.70	115.00	80.50
9977	Carriage	L.S.	0.52	2.00	1.04
9999	Repair to the surface	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				353.44 W
	Add 1 % Water charges on "W"				3.53
	TOTAL				356.97 X
	Add GST (multiplying factor 0.1405) on "X"				50.15
	TOTAL				407.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.07
	Total				468.20 Z
	Add Cess @ 1% on "Z"				4.68
	Cost of 10.00 sqm				472.88
	Cost of 1.00 sqm				47.29
	Say				47.30
13.113.2	One or more coats with spar varnish				
	Detail of cost for 10 sqm				
	MATERIAL				
858	Superior spar varnish	litre	0.75	115.00	86.25
9977	Carriage	L.S.	0.52	2.00	1.04
9999	Repair etc	L.S.	2.73	2.00	5.46
	LABOUR				
0031	Painter	day	0.36	374.50	134.82
0018	Coolie	day	0.36	320.83	115.50
9999	Brushes, sand paper etc	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	4.16	2.00	8.32
	TOTAL				356.85 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.57
	TOTAL				360.42 X
	Add GST (multiplying factor 0.1405) on "X"				50.64
	TOTAL				411.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.66
	Total				472.71 Z
	Add Cess @ 1% on "Z"				4.73
	Cost of 10.00 sqm				477.44
	Cost of 1.00 sqm				47.74
	Say				47.75
13.114	Melamine polishing on wood work (one or more coat).				
	Detail of cost for 10 sqm				
	MATERIAL				
7241	Melamine polish	litre	0.65	280.00	182.00
006	Hire charges of Spraying machine including electric charges	day	0.78	250.00	195.00
9988	Carriage charge of Machine & Marerial	L.S.	4.42	2.00	8.84
	LABOUR				
0031	Painter	day	0.35	374.50	131.08
0017	Beldar	day	0.35	320.83	112.29
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				638.05 W
	Add 1 % Water charges on "W"				6.38
	TOTAL				644.43 X
	Add GST (multiplying factor 0.1405) on "X"				90.54
	TOTAL				734.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.25
	Total				845.21 Z
	Add Cess @ 1% on "Z"				8.45
	Cost of 10.00 sqm				853.67
	Cost of 1.00 sqm				85.37
	Say				85.35
13.115	Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.				
	Detail of cost for 10 sqm				
	MATERIAL				
856	Ordinary varnish	litre	0.70	100.00	70.00
9999	Glue, putty etc	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	1.82	2.00	3.64
9999	Painting brushes, turpentine, stencil etc	L.S.	24.18	2.00	48.36
	LABOUR				
0031	Painter	day	0.36	374.50	134.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.36	320.83	115.50
	TOTAL				377.78 W
	Add 1 % Water charges on "W"				3.78
	TOTAL				381.56 X
	Add GST (multiplying factor 0.1405) on "X"				53.61
	TOTAL				435.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.27
	Total				500.44 Z
	Add Cess @ 1% on "Z"				5.00
	Cost of 10.00 sqm				505.44
	Cost of 1.00 sqm				50.54
	Say				50.55

SUB HEAD : 14.0

REPAIRS TO BUILDING

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 fine sand)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.183	3333.55	610.04
	LABOUR				
0040	Mason (average)	day	1.21	374.50	453.15
0018	Coolie	day	1.29	320.83	413.87
0017	Beldar	day	0.54	320.83	173.25
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	15.21	2.00	30.42
	TOTAL				1975.89 W
	Add 1 % Water charges on "W"				19.76
	TOTAL				1995.65 X
	Add GST (multiplying factor 0.1405) on "X"				280.39
	TOTAL				2276.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				341.41
	Total				2617.44 Z
	Add Cess @ 1% on "Z"				26.17
	Cost of 10.00 sqm				2643.61
	Cost of 1.00 sqm				264.36
	Say				264.35
14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.183	3815.05	698.15
	LABOUR				
0040	Mason (average)	day	1.21	374.50	453.15
0018	Coolie	day	1.29	320.83	413.87
0017	Beldar	day	0.54	320.83	173.25
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	15.21	2.00	30.42
	TOTAL				2064.00 W
	Add 1 % Water charges on "W"				20.64
	TOTAL				2084.64 X
	Add GST (multiplying factor 0.1405) on "X"				292.89
	TOTAL				2377.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				356.63
	Total				2734.16 Z
	Add Cess @ 1% on "Z"				27.34
	Cost of 10.00 sqm				2761.51
	Cost of 1.00 sqm				276.15
	Say				276.15
14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
14.2.1	Door chowkhats				
	Detail of cost for each				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.021	1350.00	28.35
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0072	1350.00	9.72
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0282	106.13	2.99
982	Coarse sand	cum	0.0141	1350.00	19.04
2203	Carriage of Coarse sand	cum	0.0141	106.13	1.50
367	Portland Cement (OPC-43 grade)	tonne	0.0066	4940.00	32.60
2209	Carriage of Cement	tonne	0.0066	94.34	0.62
0017	Beldar	day	0.027	320.83	8.66
0018	Coolie	day	0.0195	320.83	6.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0030	Mistry	day	0.0084	476.00	4.00
0023	Mason (brick layer) 1st class	day	0.0018	476.00	0.86
0024	Mason (brick layer) 2nd class	day	0.0018	374.50	0.67
0028	Mate	day	0.0012	320.83	0.38
9999	Scaffolding	L.S.	1.43	2.00	2.86
9999	Hire and running charges of mechanical mixer	L.S.	0.78	2.00	1.56
9999	Sundries	L.S.	0.39	2.00	0.78
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.01	2679.10	26.79
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.18	2.00	48.36
9999	Painting two coats of coaltar	L.S.	13.52	2.00	27.04
9999	Disposal of mulba	L.S.	1.82	2.00	3.64
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.75	320.83	240.62
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				660.02 W
	Add 1 % Water charges on "W"				6.60
	TOTAL				666.62 X
	Add GST (multiplying factor 0.1405) on "X"				93.66
	TOTAL				760.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				114.04
	Total				874.32 Z
	Add Cess @ 1% on "Z"				8.74
	Cost of each				883.06
	Say				883.05
14.2.2	Window chowkhats				
	Detail of cost for each				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.014	1350.00	18.90
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0048	1350.00	6.48
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0188	106.13	2.00
982	Coarse sand	cum	0.0094	1350.00	12.69
2203	Carriage of Coarse sand	cum	0.0094	106.13	1.00
367	Portland Cement (OPC-43 grade)	tonne	0.0044	4940.00	21.74
2209	Carriage of Cement	tonne	0.0044	94.34	0.42
0017	Beldar	day	0.018	320.83	5.77
0018	Coolie	day	0.013	320.83	4.17
0030	Mistry	day	0.0056	476.00	2.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.0012	476.00	0.57
0024	Mason (brick layer) 2nd class	day	0.0012	374.50	0.45
0028	Mate	day	0.0008	320.83	0.26
9999	Scaffolding and sundries	L.S.	0.91	2.00	1.82
9999	Hire and running charges of mechanical mixer	L.S.	0.52	2.00	1.04
9999	Sundries	L.S.	0.26	2.00	0.52
	Cement mortar 1 : 6 (1 cement : 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.006	2679.10	16.07
9999	Cement concrete 1:2:4	L.S.	9.88	2.00	19.76
9999	Painting two coats of coaltar	L.S.	0.91	2.00	1.82
0040	Mason (average)	day	0.33	374.50	123.59
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				402.14 W
	Add 1 % Water charges on "W"				4.02
	TOTAL				406.16 X
	Add GST (multiplying factor 0.1405) on "X"				57.07
	TOTAL				463.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.48
	Total				532.71 Z
	Add Cess @ 1% on "Z"				5.33
	Cost of each				538.03
	Say				538.05

14.2.3 Clerestory window chowkhats

Detail of cost for each

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.007	1350.00	9.45
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0024	1350.00	3.24
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0094	106.13	1.00
982	Coarse sand	cum	0.0047	1350.00	6.35
2203	Carriage of Coarse sand	cum	0.0047	106.13	0.50
367	Portland Cement (OPC-43 grade)	tonne	0.0022	4940.00	10.87
2209	Carriage of Cement	tonne	0.0022	94.34	0.21
0017	Beldar	day	0.009	320.83	2.89
0018	Coolie	day	0.0065	320.83	2.09
0030	Mistry	day	0.0028	476.00	1.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.0006	476.00	0.29
0024	Mason (brick layer) 2nd class	day	0.0006	374.50	0.22
0028	Mate	day	0.0004	320.83	0.13
9999	Scaffolding and sundries	L.S.	0.52	2.00	1.04
9999	Hire and running charges of mechanical mixer	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
3.6	Cement mortar 1 : 6 (1 cement : 6 fine sand) Rate as per Item Number 3.6 of SH: Mortars	cum	0.003	2679.10	8.04
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	8.06	2.00	16.12
9999	Painting two coats of coaltar	L.S.	0.91	2.00	1.82
0040	Mason (average)	day	0.17	374.50	63.67
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				295.89 W
	Add 1 % Water charges on "W"				2.96
	TOTAL				298.85 X
	Add GST (multiplying factor 0.1405) on "X"				41.99
	TOTAL				340.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.13
	Total				391.96 Z
	Add Cess @ 1% on "Z"				3.92
	Cost of each				395.88
	Say				395.90
14.3	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.				
	Details of cost for 1 chowkhat.				
0017	Beldar	day	0.027	320.83	8.66
0018	Coolie	day	0.0195	320.83	6.26
0030	Mistry	day	0.0084	476.00	4.00
0028	Mate	day	0.0012	320.83	0.38
9999	Disposal of mulba	L.S.	1.82	2.00	3.64
7019	Dash fastner/ chemical fastener	each	6.00	14.00	84.00
9999	Hire charges of drill machine hire charges, Scaffolding and Sundries	L.S.	12.22	2.00	24.44
	TOTAL				131.38 W
	Add 1 % Water charges on "W"				1.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				132.70 X
	Add GST (multiplying factor 0.1405) on "X"				18.64
	TOTAL				151.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.70
	Total				174.04 Z
	Add Cess @ 1% on "Z"				1.74
	Cost of each				175.78
	Say				175.80
14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.				
14.4.1	For door/ window/ clerestory window				
	Details of cost for one opening of size				
	0.90x2.10m = 1.89 sqm				
	Cement mortar 1:6 (1 cement: 6 fine sand)				
3.6	Rate as per Item Number 3.6 of SH: Mortars	cum	0.01	2679.10	26.79
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.57	2.00	49.14
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.20	320.83	385.00
0018	Coolie	day	0.40	320.83	128.33
9999	Scaffolding and Sundries	L.S.	3.50	2.00	7.00
	TOTAL				783.51 W
	Add 1 % Water charges on "W"				7.84
	TOTAL				791.34 X
	Add GST (multiplying factor 0.1405) on "X"				111.18
	TOTAL				902.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				135.38
	Total				1037.91 Z
	Add Cess @ 1% on "Z"				10.38
	Cost of 1.89sqm.				1048.29
	Cost of 1.00 sqm.				554.65
	Say				554.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
14.5.1	Float glass panes of thickness 4 mm (weight not less than 10kg/sqm).				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	300.00	330.00
9988	Carriage including sundries	L.S.	1.82	2.00	3.64
863	Putty for wood work	kilogram	0.68	30.00	20.40
9999	Painting or varnishing or beewaxing	L.S.	5.33	2.00	10.66
9999	Sundries Nails etc.	L.S.	6.76	2.00	13.52
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.23	320.83	73.79
9999	Sundries such as Rag, cotton etc	L.S.	1.43	2.00	2.86
	TOTAL				541.01 W
	Add 1 % Water charges on "W"				5.41
	TOTAL				546.42 X
	Add GST (multiplying factor 0.1405) on "X"				76.77
	TOTAL				623.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.48
	Total				716.67 Z
	Add Cess @ 1% on "Z"				7.17
	Cost of 1.00 sqm				723.83
	Say				723.85
14.5.2	Float glass panes of thickness 5.0 mm (weight not less than 12.50 kg/sqm)				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.0 mm.(weight not less than 12.50 kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	500.00	550.00
9988	Carriage including sundries	L.S.	1.82	2.00	3.64
863	Putty for wood work	kilogram	0.68	30.00	20.40
9999	Painting or varnishing or beewaxing	L.S.	5.33	2.00	10.66
9999	Sundries Nails etc.	L.S.	6.76	2.00	13.52
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.23	320.83	73.79
9999	Sundries such as Rag, cotton etc	L.S.	1.43	2.00	2.86
	TOTAL				761.01 W
	Add 1 % Water charges on "W"				7.61
	TOTAL				768.62 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				107.99
	TOTAL				876.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				131.49
	Total				1008.10 Z
	Add Cess @ 1% on "Z"				10.08
	Cost of 1.00 sqm				1018.18
	Say				1018.20
14.6	Renewing glass panes, with wooden fillets wherever necessary:				
14.6.1	Float glass panes of thickness 4 mm (weight not less than 10kg/sqm)				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	300.00	330.00
1189	Second class teak wood in scantling	10 cudm	0.025	776.00	19.40
1194	Second class deodar wood in planks	10 cudm	0.025	500.00	12.50
1196	First class kail wood in planks	10 cudm	0.025	300.00	7.50
9999	Painting or varnishing or beewaxing	L.S.	4.42	2.00	8.84
9999	Sundries Nails etc.	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0021	Glazier	day	0.25	374.50	93.63
0017	Beldar	day	0.45	320.83	144.37
9999	Sundries such as Rag, cotton etc	L.S.	1.82	2.00	3.64
	TOTAL				700.24 W
	Add 1 % Water charges on "W"				7.00
	TOTAL				707.24 X
	Add GST (multiplying factor 0.1405) on "X"				99.37
	TOTAL				806.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				120.99
	Total				927.60 Z
	Add Cess @ 1% on "Z"				9.28
	Cost of 1.00 sqm				936.88
	Say				936.90
14.6.2	Float glass panes of thickness 5.0 mm (weight not less than 12.50 kg/sqm)				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.0 mm.(weight not less than 12.50 kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	500.00	550.00
1189	Second class teak wood in scantling	10 cudm	0.025	776.00	19.40
1194	Second class deodar wood in planks	10 cudm	0.025	500.00	12.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1196	First class kail wood in planks	10 cudm	0.025	300.00	7.50
9999	Painting or varnishing or beewaxing	L.S.	4.42	2.00	8.84
9999	Sundries Nails etc.	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0021	Glazier	day	0.25	374.50	93.63
0017	Beldar	day	0.45	320.83	144.37
9999	Sundries such as Rag, cotton etc	L.S.	1.82	2.00	3.64
TOTAL					920.24 W
Add 1 % Water charges on "W"					9.20
TOTAL					929.44 X
Add GST (multiplying factor 0.1405) on "X"					130.59
TOTAL					1060.03 Y
Add 15 % Contractor's profit and overheads on "Y"					159.00
Total					1219.03 Z
Add Cess @ 1% on "Z"					12.19
Cost of 1.00 sqm					1231.22
Say					1231.20

14.7 Renewing glass panes and refixing existing wooden fillets:

14.7.1 Float glass panes of thickness 4 mm (weight not less than 10kg/sqm)

Detail of cost for 10 glasses area each 0.1sqm.

MATERIAL

2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	300.00	330.00
9977	Carriage of glasspanes and other materials	L.S.	2.73	2.00	5.46
9999	Sundries Nails etc.	L.S.	9.88	2.00	19.76
9999	Methylated spirit	L.S.	5.33	2.00	10.66
0021	Glazier	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.43	2.00	2.86
TOTAL					577.34 W
Add 1 % Water charges on "W"					5.77
TOTAL					583.11 X
Add GST (multiplying factor 0.1405) on "X"					81.93
TOTAL					665.04 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				99.76
	Total				764.80 Z
	Add Cess @ 1% on "Z"				7.65
	Cost of 1.00 sqm				772.44
	Say				772.45
14.7.2	Float glass panes of thickness 5.0 mm (weight not less than 12.50 kg/sqm)				
	Detail of cost for 10 glasses area each 0.1sqm.				
	MATERIAL				
2407	Float glass sheet of nominal thickness 5.0 mm.(weight not less than 12.50 kg/sqm). 1.00 sqm + 10% wastage= 1.10 Sqm	sqm	1.10	500.00	550.00
9977	Carriage of glasspanes and other materials	L.S.	2.73	2.00	5.46
9999	Sundries Nails etc.	L.S.	9.88	2.00	19.76
9999	Methylated spirit	L.S.	5.33	2.00	10.66
0021	Glazier	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				797.34 W
	Add 1 % Water charges on "W"				7.97
	TOTAL				805.31 X
	Add GST (multiplying factor 0.1405) on "X"				113.15
	TOTAL				918.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				137.77
	Total				1056.23 Z
	Add Cess @ 1% on "Z"				10.56
	Cost of 1.00 sqm				1066.79
	Say				1066.80

14.8 Supplying and fixing new wooden fillets wherever necessary:

14.8.1 2nd class teak wood fillets

Details of cost for 10 metres length

MATERIAL

1190	Second class teak wood in planks 10.00x0.01x0.01 = 1.00 cu dm Add 15% wastage = 0.15 cu dm Total = 1.15 cu dm	10 cu dm	0.115	791.00	90.97
9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				324.08 W
	Add 1 % Water charges on "W"				3.24
	TOTAL				327.32 X
	Add GST (multiplying factor 0.1405) on "X"				45.99
	TOTAL				373.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.00
	Total				429.30 Z
	Add Cess @ 1% on "Z"				4.29
	Cost of 10.00 metre				433.60
	Cost of 1.00 metre				43.36
	Say				43.35

14.8.2 Hollock wood fillets

Details of cost for 10 metres length

MATERIAL

2466	Hollock wood in scantling	10 cu dm	0.115	350.00	40.25
	10.00x0.01x0.01 = 1.00 cu dm				
	Add 15% wastage = 0.15 cu dm				
	Total = 1.15 cu dm				

9999	Nails	L.S.	26.91	2.00	53.82
	LABOUR				

0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	2.73	2.00	5.46

	TOTAL				273.36 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				276.10 X
	Add GST (multiplying factor 0.1405) on "X"				38.79
	TOTAL				314.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.23
	Total				362.12 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 10.00 metre				365.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 metre				36.57
	Say				36.55
14.9	Renewal of old putty of glass panes (length)				
	Details of cost for 13 metres length				
	MATERIAL				
863	Putty for wood work	kilogram	0.68	30.00	20.40
9999	Nails	L.S.	7.15	2.00	14.30
9999	Spirit	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				251.62 W
	Add 1 % Water charges on "W"				2.52
	TOTAL				254.14 X
	Add GST (multiplying factor 0.1405) on "X"				35.71
	TOTAL				289.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.48
	Total				333.32 Z
	Add Cess @ 1% on "Z"				3.33
	Cost of 13.00 metres				336.65
	Cost of 1.00 metre				25.90
	Say				25.90
14.10	Refixing old glass panes with putty and nails				
	Details of cost for 1 sqm				
863	Putty for wood work	kilogram	0.68	30.00	20.40
9999	Spirit	L.S.	2.73	2.00	5.46
9999	Nails	L.S.	7.15	2.00	14.30
	LABOUR				
0021	Glazier	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				251.62 W
	Add 1 % Water charges on "W"				2.52
	TOTAL				254.14 X
	Add GST (multiplying factor 0.1405) on "X"				35.71
	TOTAL				289.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				333.32 Z
	Add Cess @ 1% on "Z"				3.33
	Cost of 1.00 sqm				336.65
	Say				336.65
14.11	Fixing old glass panes with wooden fillets (excluding cost of fillets)				
	Detail of cost for 1 sqm				
	LABOUR				
0021	Glazier	day	0.30	374.50	112.35
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.43	2.00	2.86
9999	Nails	L.S.	3.90	2.00	7.80
	TOTAL				219.26 W
	Add 1 % Water charges on "W"				2.19
	TOTAL				221.45 X
	Add GST (multiplying factor 0.1405) on "X"				31.11
	TOTAL				252.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.88
	Total				290.45 Z
	Add Cess @ 1% on "Z"				2.90
	Cost of 1.00 sqm				293.35
	Say				293.35
14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.				
	Details of cost for each fan clamp.				
	MATERIAL				
	M.S.bar 16mm dia = 40cm (including wastage) @ 1.58 kg/m = 0.632 kg				
1003	Mild steel round bar above 12 mm dia	quintal	0.00632	4400.00	27.81
9999	Cement concrete 1:2:4 (1 Cement : 2	L.S.	13.52	2.00	27.04
	Coarse sand : 4 graded stone aggregate 20mm nominal size) mortar for rendering or plastering				
9999	Painting two or more coats to exposed portion of the clamp including priming coat	L.S.	7.15	2.00	14.30
	Labour for fixing				
0012	Blacksmith 1st class	day	0.03	476.00	14.28
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.25	320.83	80.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				214.04 W
	Add 1 % Water charges on "W"				2.14
	TOTAL				216.18 X
	Add GST (multiplying factor 0.1405) on "X"				30.37
	TOTAL				246.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.98
	Total				283.53 Z
	Add Cess @ 1% on "Z"				2.84
	Cost of each				286.37
	Say				286.35
14.13	Regrading terracing of mud phaska covered with tiles or brick, in cement mortar by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per direction of Engineer-in-Charge.				
	Detail of cost for 10 sqm				
	(i) Dismantling tiles/bricks in cement mortar including removing mud plaster and cleaning the tiles/bricks				
	LABOUR				
0040	Mason (average)	day	0.54	374.50	202.23
0017	Beldar	day	0.54	320.83	173.25
	(ii) Preparing the surface, for mud phuska to proper slope, relaying mud plaster gobri leaping.				
0040	Mason (average)	day	0.27	374.50	101.12
	25mm thick mud plaster including gobri leaping				
	MATERIAL				
	Mud mortar				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.24	494.30	118.63
308	Bhusa	quintal	0.084	500.00	42.00
	Gobri mortar				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.12	494.30	59.32
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
3.3	(iii) relaying tiles/bricks (Rate as per item No 3.3) including Cement mortar 1:3 (1 Cement :	cum	0.061	3988.00	243.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	3 fine sand) for grouting				
	LABOUR				
0040	Mason (average)	day	1.20	374.50	449.40
0017	Beldar	day	1.50	320.83	481.25
0011	Bhisti	day	1.00	320.83	320.83
9999	Disposal of mulba	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				2287.61 W
	Add 1 % Water charges on "W"				22.88
	TOTAL				2310.49 X
	Add GST (multiplying factor 0.1405) on "X"				324.62
	TOTAL				2635.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				395.27
	Total				3030.38 Z
	Add Cess @ 1% on "Z"				30.30
	Cost of 10.00 sqm				3060.68
	Cost of 1.00 sqm				306.07
	Say				306.05
14.14	Replacing sand stone slabs in roofing, laid in cement mortar 1:4 (1 cement : 4 coarse sand), including necessary repairs and cement pointing with same mortar complete, including disposal of rubbish to dumping ground, all complete as per direction of Engineer-in-Charge.				
14.14.1	Red/ white sand stone slabs 30 to 50 mm thick				
	Detail of cost for 10 sqm				
	Dismantling existing stone, slabs roofing 1x10 sqmx0.05m = 0.50 cum.				
0017	Beldar	day	0.885	320.83	283.93
0018	Coolie	day	0.375	320.83	120.31
9999	Sundries	L.S.	4.03	2.00	8.06
9999	Cleaning the surface including necessary repairs	L.S.	40.43	2.00	80.86
1174	Red sand stone slab 45 mm and 50 mm thick (un-dressed)	sqm	11.00	225.00	2475.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	1.41	94.34	133.02
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0105	3815.05	40.06
3.3	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3988.00	29.91
0040	Mason (average)	day	1.69	374.50	632.91
0010	Bandhani	day	2.03	320.83	651.28
0018	Coolie	day	1.69	320.83	542.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.34	320.83	109.08
9999	Sundries	L.S.	16.12	2.00	32.24
2264	Carriage of Rubbish	cum	0.50	106.13	53.07
	TOTAL				5191.93 W
	Add 1 % Water charges on "W"				51.92
	TOTAL				5243.85 X
	Add GST (multiplying factor 0.1405) on "X"				736.76
	TOTAL				5980.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				897.09
	Total				6877.70 Z
	Add Cess @ 1% on "Z"				68.78
	Cost of 10.00 sqm				6946.48
	Cost of 1.00 sqm				694.65
	Say				694.65
14.15	Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
14.15.1	Sal wood battens				
	Details of cost for 10 battens i.e. 300 cumdm				
	3 metres long of 100x100mm				
	10x3x0.1x0.1 = 0.3cum =300cumdm				
	Add wastage @ 2%= 6 cumdm, Total				
	= 306 cumdm				
	MATERIAL				
1199	Sal wood in scantling	10 cumdm	30.60	600.00	18360.00
2204	Carriage of Timber	cum	0.306	121.29	37.12
	LABOUR				
	Taking out the existing battens and refixing new one including supporting the roof				
0015	Carpenter 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	2.00	320.83	641.66
9999	Disposal of mulba	L.S.	5.33	2.00	10.66
9999	Making good the holes including sundries	L.S.	80.73	2.00	161.46
859	Oil type wood preservative	litre	1.22	130.00	158.60
0031	Painter	day	0.183	374.50	68.53
0018	Coolie	day	0.183	320.83	58.71
9977	Carriage	L.S.	0.78	2.00	1.56
9999	Brushes	L.S.	5.07	2.00	10.14
9999	Sundries	L.S.	4.81	2.00	9.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				19705.31 W
	Add 1 % Water charges on "W"				197.05
	TOTAL				19902.36 X
	Add GST (multiplying factor 0.1405) on "X"				2796.28
	TOTAL				22698.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				3404.80
	Total				26103.44 Z
	Add Cess @ 1% on "Z"				261.03
	Cost of 300 Cudm				26364.48
	Cost of 1.00 cum				87881.59
	Say				87881.60

14.16 Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.

14.16.1 Not exceeding 4.00 metres in length.

14.16.1.1 Sal wood beams

Details of cost for 300 cudm or 0.3 cum

Consider one beam i.e. 300 cudm.

0.25 x 0.30m x 4.0m (long) = 0.30 cum

Add wastage @ 2% (0.006 cum)

= 0.306 cum = 306 cudm

(i) Propping the roof

MATERIAL

100mm diameter ballies 4m long 10 nos.

100x100mm salwood battens 1.0 metre long

5 nos.x1.0x0.1x0.1 =0.05cum = 50 cudm.

These materials can be used for 16 times

Hence qty for one operation 1/16

= 3.125 cudm

1199	Sal wood in scantling	10 cudm	0.3125	600.00	187.50
2204	Carriage of Timber	cum	0.0228	121.29	2.77
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	(ii) Taking out the existing beams etc.				
	LABOUR				
0040	Mason (average)	day	0.13	374.50	48.69
0010	Bandhani	day	0.50	320.83	160.42
0017	Beldar	day	0.33	320.83	105.87
	(iii) Renewal				
	Materials and Labour				
1199	Sal wood in scantling	10 cudm	30.60	600.00	18360.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of Timber	cum	0.306	121.29	37.12
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0010	Bandhani	day	0.50	320.83	160.42
0017	Beldar	day	1.00	320.83	320.83
	Painting with oil preservative (4x1.1) +(2.0x0.25x0.30) =4.4 + 0.15= 4.55 sqm @ 1 ltr / 10 sqm=0.455 litre.				
859	Oil type wood preservative	litre	0.455	130.00	59.15
0031	Painter	day	0.07	374.50	26.22
0018	Coolie	day	0.07	320.83	22.46
9999	Sundries	L.S.	0.13	2.00	0.26
9977	Carriage	L.S.	1.82	2.00	3.64
9999	Brushes	L.S.	1.82	2.00	3.64
9999	Making good the holes	L.S.	20.67	2.00	41.34
9999	Sundries	L.S.	26.91	2.00	53.82
302	Safeda ballies 125 mm diameter	metre	2.50	40.00	100.00
	TOTAL				20242.46 W
	Add 1 % Water charges on "W"				202.42
	TOTAL				20444.88 X
	Add GST (multiplying factor 0.1405) on "X"				2872.51
	TOTAL				23317.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				3497.61
	Total				26814.99 Z
	Add Cess @ 1% on "Z"				268.15
	Cost of 300 Cudm				27083.14
	Cost of 1.00 cum				90277.14
	Say				90277.15

14.16.1.2 Hollock wood beams

Details of cost for 300 cudm or 0.3 cum

Consider one beam

0.25 x 0.30m x 4.0m (long) = 0.30 cum

= 300 cudm

Add wastage @ 2% (0.006 cum)

= 0.306 cum =306cudm

(I) Propping the roof

MATERIAL

100mm diameter ballies 4m long 10 nos.

100x100mm salwood battens 1.0metre long 5
nos.x1.0x0.1x0.1 =0.05cum = 50 cudm.

These materials can be used for 16 times
hence qty for one operation 1/16 = 3.125
cudm

2466	Hollock wood in scantling	10 cudm	0.3125	350.00	109.38
2204	Carriage of Timber	cum	0.0228	121.29	2.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	(ii) Taking out the existing beams etc.				
	LABOUR				
0040	Mason (average)	day	0.13	374.50	48.69
0010	Bandhani	day	0.5	320.83	160.42
0017	Beldar	day	0.33	320.83	105.87
	(iii) Renewal				
	Materials and Labour				
2466	Hollock wood in scantling	10 cudm	30.60	350.00	10710.00
2204	Carriage of Timber	cum	0.306	121.29	37.12
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0010	Bandhani	day	0.50	320.83	160.42
0017	Beldar	day	1.00	320.83	320.83
	Painting with oil preservative				
	$(4 \times 1.1) + (2.0 \times 0.25 \times 0.30) = 4.4 + 0.15 = 4.55$ sqm @ 1 ltr / 10 sqm = 0.455 litre.				
859	Oil type wood preservative	litre	0.455	130.00	59.15
0031	Painter	day	0.07	374.50	26.22
0018	Coolie	day	0.07	320.83	22.46
9999	Sundries	L.S.	0.13	2.00	0.26
9977	Carriage	L.S.	1.82	2.00	3.64
9999	Brushes	L.S.	1.82	2.00	3.64
9999	Making good the holes	L.S.	20.67	2.00	41.34
9999	Sundries	L.S.	26.91	2.00	53.82
302	Safeda ballies 125 mm diameter	metre	2.50	40.00	100.00
	TOTAL				12514.33 W
	Add 1 % Water charges on "W"				125.14
	TOTAL				12639.47 X
	Add GST (multiplying factor 0.1405) on "X"				1775.85
	TOTAL				14415.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				2162.30
	Total				16577.62 Z
	Add Cess @ 1% on "Z"				165.78
	Cost of 300 Cudm				16743.39
	Cost of 1.00 cum				55811.31
	Say				55811.30

14.16.2 Above 4.00 metres and upto 5.00 metres length.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

14.16.2.1 Sal wood beams

Details of cost for 375 cudm or 0.375 cum

Consider one beam i.e. 375 cudm.

0.25 x 0.30m x 5.0m (long) = 0.375 cum

Add wastage @ 2% (0.008 cum)

= 0.383 cum = 383cudm

(i) Propping the roof

MATERIAL

125mm diameter ballies 5m long 12 nos

100x100mm salwood battens 1.0 metre long

6 nos. x1.0x0.1x0.1 = 60 cudm. These

materials can be used for 16 times hence qty

for one operation $1/16 = 3.75$ cudm

1199	Sal wood in scantling	10 cudm	0.375	600.00	225.00

2204	Carriage of Timber	cum	0.0498	121.29	6.04

LABOUR

0015	Carpenter 2nd class	day	0.25	374.50	93.63

0017	Beldar	day	0.25	320.83	80.21

(ii) Taking out the existing beams etc.

LABOUR

0040	Mason (average)	day	0.25	374.50	93.63

0010	Bandhani	day	0.63	320.83	202.12

0017	Beldar	day	0.50	320.83	160.42

(iii) Renewal

Materials and Labour

1199	Sal wood in scantling	10 cudm	38.30	600.00	22980.00

2204	Carriage of Timber	cum	0.383	121.29	46.45

0015	Carpenter 2nd class	day	1.00	374.50	374.50

0010	Bandhani	day	1.00	320.83	320.83

0017	Beldar	day	2.00	320.83	641.66

Painting with oil preservative

$(2 \times 5 \times 0.25) + 3.0 + 2.0 \times 0.25 \times 0.30$

= 5.5 + 0.15 = 5.65 sqm @ 1 litre / 10 sqm = 0.565 litre.

859	Oil type wood preservative	litre	0.565	130.00	73.45

0031	Painter	day	0.08	374.50	29.96

0018	Coolie	day	0.08	320.83	25.67

9999	Sundries	L.S.	0.26	2.00	0.52

9977	Carriage	L.S.	2.34	2.00	4.68

9999	Brushes	L.S.	2.21	2.00	4.42

9999	Making good the holes	L.S.	20.67	2.00	41.34

9999	Sundries	L.S.	33.15	2.00	66.30

302	Safeda ballies 125 mm diameter	metre	3.75	40.00	150.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				25620.82 W
	Add 1 % Water charges on "W"				256.21
	TOTAL				25877.02 X
	Add GST (multiplying factor 0.1405) on "X"				3635.72
	TOTAL				29512.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				4426.91
	Total				33939.66 Z
	Add Cess @ 1% on "Z"				339.40
	Cost of 375 Cudm				34279.06
	Cost of 1.00 cum				91410.81
	Say				91410.80

14.16.2.2 Hollock wood beams

Details of cost for 375 cudm or 0.375 cum

Consider one beam i.e. 375 cudm.

0.25 x 0.30m x 5.0m (long) = 0.375 cum

Add wastage @ 2% (0.008 cum)

= 0.383 cum = 383cudm

(i) Propping the roof

MATERIAL

125mm diameter ballies 5m long 12 nos

100x100mm salwood battens 1.0 metre long

6 nos. x1.0x0.1x0.1 = 60 cudm. These

materials can be used for 16 times hence qty

for one operation $1/16 = 3.75$ cudm

2466	Hollock wood in scantling	10 cudm	0.375	350.00	131.25
2204	Carriage of Timber	cum	0.0375	121.29	4.55
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	(ii) Taking out the existing beams etc.				
	LABOUR				
0040	Mason (average)	day	0.25	374.50	93.63
0010	Bandhani	day	0.63	320.83	202.12
0017	Beldar	day	0.50	320.83	160.42
	(iii) Renewal				
	Materials and Labour				
2466	Hollock wood in scantling	10 cudm	38.30	350.00	13405.00
2204	Carriage of Timber	cum	0.383	121.29	46.45
0015	Carpenter 2nd class	day	1.00	374.50	374.50
0010	Bandhani	day	1.00	320.83	320.83
0017	Beldar	day	2.00	320.83	641.66

Painting with oil preservative

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(2x5x0.25)+3.0 + 2.0x0.25x0.30 = 5.5 + 0.15 = 5.65 sqm @ 1 litre / 10 sqm =0.565 litre.				
859	Oil type wood preservative	litre	0.565	130.00	73.45
0031	Painter	day	0.08	374.50	29.96
0018	Coolie	day	0.08	320.83	25.67
9999	Sundries	L.S.	0.26	2.00	0.52
9977	Carriage	L.S.	2.34	2.00	4.68
9999	Brushes	L.S.	2.21	2.00	4.42
9999	Making good the holes	L.S.	20.67	2.00	41.34
9999	Sundries	L.S.	33.15	2.00	66.30
302	Safeda ballies 125 mm diameter	metre	3.75	40.00	150.00
	TOTAL				15950.57 W
	Add 1 % Water charges on "W"				159.51
	TOTAL				16110.08 X
	Add GST (multiplying factor 0.1405) on "X"				2263.47
	TOTAL				18373.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				2756.03
	Total				21129.58 Z
	Add Cess @ 1% on "Z"				211.30
	Cost of 375 Cudm				21340.87
	Cost of 1.00 cum				56909.00
	Say				56909.00
14.17	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	0.53	320.83	170.04
0018	Coolie	day	0.08	320.83	25.67
0011	Bhisti	day	0.07	320.83	22.46
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				221.02 W
	Add 1 % Water charges on "W"				2.21
	TOTAL				223.23 X
	Add GST (multiplying factor 0.1405) on "X"				31.36
	TOTAL				254.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.19
	Total				292.79 Z
	Add Cess @ 1% on "Z"				2.93
	Cost of 10.00 sqm				295.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 sqm				29.57
	Say				29.55
14.18	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :				
14.18.1	With F.P.S. brick tiles				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.015	3988.00	59.82
1213	Water proofing materials	kilogram	0.153	35.00	5.36
	2% of wt. of cement				
	LABOUR				
0018	Coolie	day	0.36	320.83	115.50
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0011	Bhisti	day	0.36	320.83	115.50
9999	Sundries	L.S.	18.85	2.00	37.70
	TOTAL				468.69 W
	Add 1 % Water charges on "W"				4.69
	TOTAL				473.38 X
	Add GST (multiplying factor 0.1405) on "X"				66.51
	TOTAL				539.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				80.98
	Total				620.87 Z
	Add Cess @ 1% on "Z"				6.21
	Cost of 10.00 sqm				627.08
	Cost of 1.00 sqm				62.71
	Say				62.70
14.18.2	With modular brick tiles				
	Detail of cost for 10 sqm				
	MATERIAL				
	Cement mortar 1 : 3 (1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.017	3988.00	67.80
1213	Water proofing materials	kilogram	0.173	35.00	6.06
	2% of wt. of cement				
	LABOUR				
0018	Coolie	day	0.36	320.83	115.50
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0011	Bhisti	day	0.36	320.83	115.50
9999	Sundries	L.S.	18.85	2.00	37.70
	TOTAL				477.37 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				4.77
	TOTAL				482.14 X
	Add GST (multiplying factor 0.1405) on "X"				67.74
	TOTAL				549.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.48
	Total				632.37 Z
	Add Cess @ 1% on "Z"				6.32
	Cost of 10.00 sqm				638.69
	Cost of 1.00 sqm				63.87
	Say				63.85
14.19	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.				
	Details of cost for 30 mtrs of weight 63 kgs				
	M.S. Flats 40x6mm @ 1.9kg./m				
	= 30x1.9 = 57 kg. (A)				
	J' hook bolts @ 30cm centre to centre				
	= 101 Nos. x 0.15 m = 15.15 m @				
	0.40kg./ m = 6.06kg (B)				
	Total (A+B) = 63.06 kg Say 63 kg				
	LABOUR				
0013	Blacksmith 2nd class	day	0.09	374.50	33.71
0010	Bandhani	day	0.06	320.83	19.25
0017	Beldar	day	0.16	320.83	51.33
	TOTAL				104.29 W
	Add 1 % Water charges on "W"				1.04
	TOTAL				105.33 X
	Add GST (multiplying factor 0.1405) on "X"				14.80
	TOTAL				120.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.02
	Total				138.15 Z
	Add Cess @ 1% on "Z"				1.38
	Cost for 63 kg.				139.53
	Cost of 1.00 kg				2.21
	Say				2.20
14.20	Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand.				
	Detail of cost for 20.2 m wind tie				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	6.80	120.00	816.00
	@ 30 cm center to center = 68 Nos				
1208	Bitumen washer	100 Nos	0.68	30.00	20.40
1209	G.I. plain washer thick	100 Nos	0.68	35.00	23.80
9977	Carriage of bolts, nuts and washers etc.	L.S.	1.17	2.00	2.34
	LABOUR				
0012	Blacksmith 1st class	day	0.34	476.00	161.84
0017	Beldar	day	0.34	320.83	109.08
9999	Sundries	L.S.	13.91	2.00	27.82
	Applying priming coat with ready mixed zink chromate yellow primer 20.2x2x(0.04+0.006) = 1.86 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	1.86	33.30	61.94 A
	Painting with ready mixed black antcorrosive bitumastic paint				
13.65.1	Rate as per item No.13.65.1 SH: Finishing	sqm	1.86	66.90	124.44 A
	TOTAL				1347.66
	Add 1 % Water charges on "W-A"	1161.28			11.61
	TOTAL				1359.27 X
	Add GST (multiplying factor 0.1405) on "X-A"	1172.90			164.79
	TOTAL				1524.07 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1337.69			200.65
	Total				1724.72 Z
	Add Cess @ 1% on "Z-A"	1538.34			15.38
	Cost of 20.2 metres				1740.10
	Cost of 1.00 metre				86.14
	Say				86.15
14.21	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.				
	Detail of cost for gate of size 1.52x2.4 m (weight 11.55 kg)				
	MATERIAL				
	M.S. Tee 40x40x6 mm				
	Top rail = 1.725 m				
	Bottom rail = 1.570 m				
	Total = 3.295 m say 3.30 m @ 3.5 kg/m = 11.55 kg				
	Add 10% wastage = 1.155 kg				
	Total = 12.705 kg = 0.1270 q say 0.13 q				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.13	4600.00	598.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2205	Carriage of Steel	tonne	0.013	94.34	1.23
15.12.2	Taking out collapsible gate including frame (Rate as per item no 15.12.2 of SH Dismantling and Demolishing) Refixing of collapsible gate including mending good the damaged floor, wall etc.frame	each	1.00	214.85	214.85 A
4.2.5	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) Rate as per item no 4.2.5 of SH : Concrete work	cum	0.03	6577.55	197.33 A
3.6	Cement mortar 1 : 6 (1 cement : 6 fine sand) (Rate as per item No 3.6)	cum	0.01	2679.10	26.79
9999	Cement concrete 1:2:4 filled in chase cut	L.S.	24.18	2.00	48.36
9999	Disposal of mulba	L.S.	1.82	2.00	3.64
13.50.3	Priming coat on Tees 0.16x3.3 = 0.53 sqm Rate as per item no 13.50.3 of SH : Finishing	sqm	0.53	33.30	17.65 A
	LABOUR				
	Labour for fixing the gate				
0040	Mason (average)	day	0.50	374.50	187.25
0017	Beldar	day	0.75	320.83	240.62
9999	Sundries	L.S.	2.60	2.00	5.20
	TOTAL				1540.92 W
	Add 1 % Water charges on "W-A"	1111.09			11.11
	TOTAL				1552.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	1122.20			157.67
	TOTAL				1709.70 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1279.87			191.98
	Total				1901.68 Z
	Add Cess @ 1% on "Z-A"	1471.85			14.72
	Cost of 11.55 kg				1916.39
	Cost of 1.00 kg				165.92
	Say				165.90
14.22	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.				
14.22.1	Wheel 50 mm dia and below				
	Detail of cost for 10 nos wheels of 40 mm dia.				
	MATERIAL				
	Weight of 10 nos wheels				
	$10 \times [3.14 \times \{(4/2) \times (4/2)\} \times 4] \times 7.850 / 1000$				
	= 3.94 kg				
	Weight of 10 nos clamps 6 mm thick = $10 \times$ length of clamp = $10 \times 0.17m @ 1.90kg/m =$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	3.23 kg Weight of 10 nos 10 mm dia. Bolts, 10 cm long 10x0.10m = 1m @ 0.60 kg/m = 0.60 kg Total = 7.70 kg say 8 kg Labour for dismantling :				
0013	Blacksmith 2nd class	day	0.01	374.50	3.75
0010	Bandhani	day	0.01	320.83	3.21
0017	Beldar	day	0.02	320.83	6.42
9999	Sundries	L.S.	0.39	2.00	0.78
	Renewing the wheels with clamps :- MATERIAL				
7442	Wheel 75 mm dia. 40 mm wide	each	10.00	62.00	620.00
	10 nos clamps out of M.S. flat 40x6 mm, 170 mm long = 10x0.17m = 1.70m @ 1.9 kg/m = 3.23 kg Add 5% wastage = 0.16 kg Total = 3.39 kg say 3.50 kg				
1008	Flats upto 10 mm in thickness	quintal	0.035	4500.00	157.50
	M.S. bolt/pin 10 mm dia 10 cm long 10 Nos 10x0.06 = 0.6 kg = 0.006 q				
1034	Bolts and nuts upto 300 mm in length	quintal	0.006	4800.00	28.80
1215	Welding by electric plant	cm	80.00	2.00	160.00
	length = 10x(2x4) = 80cm LABOUR Labour for cutting, assembling and erection charges				
0012	Blacksmith 1st class	day	0.03	476.00	14.28
0010	Bandhani	day	0.02	320.83	6.42
0017	Beldar	day	0.11	320.83	35.29
	Priming coat : = 10x2(0.06+0.008)x0.25m = 0.34 sqm on Tees 0.16x3.3 = 0.53 sqm				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	0.165	33.30	5.49 A
9999	Sundries	L.S.	1.69	2	3.38
	TOTAL				1045.31 W
	Add 1 % Water charges on "W-A"	1039.82			10.40
	TOTAL				1055.71 X
	Add GST (multiplying factor 0.1405) on "X-A"	1050.22			147.56
	TOTAL				1203.27 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1197.77			179.67
	Total				1382.93 Z
	Add Cess @ 1% on "Z-A"	1377.44			13.77
	Cost of 10 nos wheels				1396.71
	Cost per wheel				139.67
	Say				139.65
14.22.2	Wheel above 50 mm dia				
	Detail of cost for 10 nos wheels				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Considering average wheel dia =75 mm Width of wheel = 40 mm M.S. flat for clamp = 60x8 mm Bolt size 16 mm dia. Lenth of one clamp : $2 \times (0.04 + 0.0375 + 0.02) + 0.05 = 0.195 + 0.05$ $= 0.245\text{m say } 0.25\text{m}$ MATERIAL Weight of 10 nos wheels $10 \times [3.14 \times \{(7.5/2) \times (7.5/2)\} \times 4] \times 7.850/1000$ $= 13.87 \text{ kg}$ Weight of 10 nos clamps 8 mm thick $= 10 \times 0.25 \text{ m @ } 3.8\text{kg/m} = 9.50 \text{ kg}$ Weight of 10 nos 16 mm dia. Bolts, 10 cm long $10 \times 0.10 \text{ m @ } 1.60 \text{ kg/m} = 1.60 \text{ kg}$ Total $= 24.97 \text{ kg say } 25 \text{ kg}$ Labour for dismantling :				
0013	Blacksmith 2nd class	day	0.04	374.50	14.98
0010	Bandhani	day	0.03	320.83	9.62
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	1.04	2.00	2.08
	Renewing the wheels with clamps :- MATERIAL				
7442	Wheel 75 mm dia. 40 mm wide 10 nos clamps out of M.S. flat 60x8 mm $= 10 \times 0.25 \text{ m @ } 3.8 \text{ kg/m} = 9.5 \text{ kg}$ Add 5% wastage = 0.48 kg Total = 9.98 kg say 10 kg	each	10.00	62.00	620.00
1008	Flats upto 10 mm in thickness M.S. bolt/pin 16 mm dia 10 cm long 10 Nos $10 \times 0.16 = 1.6 \text{ kg} = 0.016 \text{ q}$	quintal	0.10	4500.00	450.00
1034	Bolts and nuts upto 300 mm in length	quintal	0.016	4800.00	76.80
1215	Welding by electric plant length = $10 \times (2 \times 6)$	cm	120.00	2.00	240.00
	LABOUR Labour for cutting, assembling and erection charges				
0012	Blacksmith 1st class	day	0.100	476.00	47.60
0010	Bandhani	day	0.05	320.83	16.04
0017	Beldar	day	0.36	320.83	115.50
13.50.3	Priming coat : $= 10 \times 2 \times (0.06 + 0.008) \times 0.25\text{m} =$ $0.34 \text{ sqm on Tees } 0.16 \times 3.3 = 0.53 \text{ sqm}$ Rate as per item no 13.50.3 of SH : Finishing	sqm	0.34	33.30	11.32 A
9999	Sundries	L.S.	5.33	2	10.66
	TOTAL				1633.86 W
	Add 1 % Water charges on "W-A"	1622.54			16.23
	TOTAL				1650.08 X
	Add GST (multiplying factor 0.1405) on "X-A"	1638.76			230.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				1880.33	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1869.01			280.35	
	Total				2160.68	Z
	Add Cess @ 1% on "Z-A"	2149.36			21.49	
	Cost of 10 nos wheels				2182.17	
	Cost per wheel				218.22	
	Say				218.20	
14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.					
	Details for 10.91 kilolitre					
	Pumping hours 3 hrs. or 0.375 days					
011	Hire charges of Pumpset of capacity 4000 litres/hour.	day	0.375	700.00	262.50	
0017	Beldar	day	2.00	320.83	641.66	
	for clearing slush					
	TOTAL				904.16	W
	Add 1 % Water charges on "W"				9.04	
	TOTAL				913.20	X
	Add GST (multiplying factor 0.1405) on "X"				128.30	
	TOTAL				1041.51	Y
	Add 15 % Contractor's profit and overheads on "Y"				156.23	
	Total				1197.73	Z
	Add Cess @ 1% on "Z"				11.98	
	Cost of 10.91 kilolitre				1209.71	
	Cost of 1 kilolitre				110.88	
	Say				110.90	
14.24	Mud mortar made with local clay good earth.					
	Detail of cost for 1 cum					
	MATERIAL					
811	Mud (dry)	cum	1.08	165.00	178.20	
	LABOUR					
0017	Beldar	day	0.63	320.83	202.12	
0011	Bhisti	day	0.315	320.83	101.06	
9999	Sundries	L.S.	6.45	2.00	12.90	
	TOTAL				494.28	
	Cost of 1 cum				494.28	
	Say				494.30	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.25	Brick work with common burnt clay bricks of class designation 7.5 in mud mortar				
	Details of cost for 1 cum.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular)	1000 Nos	0.494	4500.00	2223.00
	bricks class designation 7.5 Mud mortar				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.25	494.30	123.58
2201	Carriage of Bricks	1000 Nos	0.494	283.01	139.81
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.36	476.00	171.36
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				3301.73 W
	Add 1 % Water charges on "W"				33.02
	TOTAL				3334.75 X
	Add GST (multiplying factor 0.1405) on "X"				468.53
	TOTAL				3803.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				570.49
	Total				4373.77 Z
	Add Cess @ 1% on "Z"				43.74
	Cost of 1 Cum.				4417.51
	Say				4417.50
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :				
14.26.1	Panelled or panelled & glazed shutters :				
14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.				
	Details of cost for shutter of cup-board				
	200x108cm = 2.16 sqm.				
	MATERIAL				
	Styles				
	4x200x8.0x2.5cm = 0.016 cum+				
	Rails				
	Top rail				
	1x110.5x8.0x2.5cm = 0.0022cum+ Lock and				
	bottom rails				
	2x110.5x8.0x2.5 cm = 0.0044 cum				
	Panels				
	2x48x41x1.6cm = 0.006cum+				
	Sash bars				
	2x114x3.8x2.5cm = 0.0022cum+				
	6x48x3.8x2.5cm = 0.003 cum+				
	Beading				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	16x92x1.4x1.2cm = 0.002cum Total = 0.0358 Add for wastage @ 10% = 0.0036 cum. Grand Total = 0.0394 cum = 39.40 cudm say 39 cudm				
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	3.900	1100.00	4290.00
2204	Carriage of Timber	cum	0.04	121.29	4.85
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Fittings-	sqm	0.99	300.00	297.00
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	36.00	43.20
	LABOUR				
0014	Carpenter 1st class	day	2.40	476.00	1142.40
0021	Glazier	day	0.18	374.50	67.41
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				6328.76 W
	Add 1 % Water charges on "W"				63.29
	TOTAL				6392.05 X
	Add GST (multiplying factor 0.1405) on "X"				898.08
	TOTAL				7290.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				1093.52
	Total				8383.65 Z
	Add Cess @ 1% on "Z"				83.84
	Cost of 2.16 sqm.				8467.49
	Cost of 1 sqm.				3920.13
	Say				3920.15

14.26.1.2 Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.

Details of cost for shutters of a cup-board
(half glazed and half panelled) 200x108cm =
2.16 sqm.

MATERIAL

Styles

4x200x8.0x2.5cm = 0.016 cum+

Rails

Top rail

1x110.5x8.0x2.5cm = 0.0022cum+ Lock and
bottom rail

2x110.5x8.0x2.5cm = 0.0044 cum.

Panels

2x48x41x1.6cm = 0.006cum+

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Sash bars 2x114x3.8x2.5cm = 0.0022cum+ 6x48x3.8x2.5cm = 0.003 cum+ Beading 16x92x1.4x1.2cm = 0.002cum Total = 0.0358 Add for wastage @ 10% = 0.0036 cum. Grand Total = 0.0394 cum = 39.40 cudm say 39 cudm				
1188	First class teak wood in planks	10 cudm	3.90	850.00	3315.00
2204	Carriage of Timber	cum	0.04	121.29	4.85
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm). Fittings	sqm	0.99	300.00	297.00
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide	metre	4.00	39.00	156.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	36.00	43.20
	LABOUR				
0014	Carpenter 1st class	day	2.40	476.00	1142.40
0021	Glazier	day	0.18	374.50	67.41
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5353.76 W
	Add 1 % Water charges on "W"				53.54
	TOTAL				5407.30 X
	Add GST (multiplying factor 0.1405) on "X"				759.73
	TOTAL				6167.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				925.05
	Total				7092.08 Z
	Add Cess @ 1% on "Z"				70.92
	Cost of 2.16 sqm.				7163.00
	Cost of 1 sqm.				3316.20
	Say				3316.20

14.26.2 Glazed shutters :

14.26.2.1 Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.

Details of cost for shutter of cup-board

200x108cm = 2.16 sqm.

MATERIAL

(i) Teak wood first class

Styles : 4x200x9.5x2.5 cm = 0.019 cum

Rails

Top & intermediate rails

2x110.5x9.5x2.5 cm = 0.005 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum. Total = 0.038 cum. Add for wastage @ 10% = 0.0038 cum. Grand Total = 0.0418 cum = 42 cudm				
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	4.20	1100.00	4620.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
608	Nickel plated mild steel piano hinges 1 mm thick 25 mm wide 75x45x3.2 mm	metre	4.00	39.00	156.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	36.00	43.20
597	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	0.20	49.00	9.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.043	121.29	5.22
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				6316.98 W
	Add 1 % Water charges on "W"				63.17
	TOTAL				6380.15 X
	Add GST (multiplying factor 0.1405) on "X"				896.41
	TOTAL				7276.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				1091.48
	Total				8368.05 Z
	Add Cess @ 1% on "Z"				83.68
	Cost of 2.16 sqm.				8451.73
	Cost of 1 sqm.				3912.84
	Say				3912.85
14.26.2.2	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.				
	Details of cost for shutter of cup-board 200x108cm = 2.16 sqm. MATERIAL				
	(i) Teak wood first class Styles : 4x200x9.5x2.5 cm = 0.019 cum Rails Top & intermediate rails 2x110.5x9.5x2.5 cm = 0.005 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum. Total = 0.038 cum. Add for wastage @ 10% = 0.0038 cum. Grand Total = 0.0418 cum = 42 cudm				
1188	First class teak wood in planks	10 cudm	4.20	850.00	3570.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	1.27	300.00	381.00
608	Nickel plated mild steel piono hinges 1 mm thick 25 mm wide 75x45x3.2 mm	metre	4.00	39.00	156.00
639	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	1.20	36.00	43.20
597	Bright finished or black enamelled mild steel butt hinges50x37x1.50 mm	10 Nos	0.20	49.00	9.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
2204	Carriage of Timber	cum	0.043	121.29	5.22
	LABOUR				
0041	Carpenter (average)	day	1.83	374.50	685.34
0021	Glazier	day	0.23	374.50	86.14
0017	Beldar	day	0.77	320.83	247.04
9999	Sundries	L.S.	40.43	2.00	80.86
	TOTAL				5266.98 W
	Add 1 % Water charges on "W"				52.67
	TOTAL				5319.65 X
	Add GST (multiplying factor 0.1405) on "X"				747.41
	TOTAL				6067.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				910.06
	Total				6977.13 Z
	Add Cess @ 1% on "Z"				69.77
	Cost of 2.16 sqm.				7046.90
	Cost of 1 sqm.				3262.45
	Say				3262.45
14.27	Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :				
14.27.1	Second class teak wood				
	Details of cost of a jaffri shutter 176x86 cm = 1.51 sqm MATERIAL Teak wood 2nd class Styles 2x176x7.5x3.5 cm = 0.0092 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rails 3x86x7.5x3.5 = 0.0068 cum				
	Total 0.0160 cum				
	Add wastage @ 10 % =0.0016 cum Total = 0.0176 cum Say 18 cudm				
1190	Second class teak wood in planks	10 cudm	1.80	791.00	1423.80
2204	Carriage of Timber Palain Jaffri work	cum	0.018	121.29	2.18
9.41.1	Rate as per Item Number 9.41.1 of SH:Wood and PVC work	sqm	1.51	2154.20	3252.84 A
595	Bright finished or black enamelled mild steel butt hinges 100x58x1.90 mm	10 Nos	0.60	80.00	48.00
597	Bright finished or black enamelled mild steel butt hinges50x37x1.50 mm	10 Nos	0.20	49.00	9.80
637	Bright finished or black enamelled mild steel screws 40 mm	100 Nos	0.48	60.00	28.80
640	Bright finished or black enamelled mild steel screws 20 mm	100 Nos	0.08	30.00	2.40
	LABOUR				
	For making frame and fixing fitting				
0015	Carpenter 2nd class	day	0.30	374.50	112.35
	TOTAL				4880.17 W
	Add 1 % Water charges on "W-A"	1627.33			16.27
	TOTAL				4896.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	1643.61			230.93
	TOTAL				5127.37 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1874.53			281.18
	Total				5408.55 Z
	Add Cess @ 1% on "Z-A"	2155.71			21.56
	Cost of 1.51 sqm.				5430.11
	Cost of 1 sqm.				3596.10
	Say				3596.10
14.28	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.				
14.28.1	20 mm diameter.				
	Detail of cost for 2 metre long				
	MATERIAL				
444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	2.00	140.00	280.00
446	Brass brackets (curtain rods) 20 mm	each	2.00	45.00	90.00
9999	Screws	L.S.	2.73	2.00	5.46
9977	Carriage	L.S.	1.56	2.00	3.12
	Wooden plugs including cutting brick work and fixing in cement mortar				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
8.23	Rate as per item no 8.23 of SH : Cladding work	each	2.00	25.40	50.80	A
9999	LABOUR	L.S.	2.73	2	5.46	
9999	Sundries	L.S.	1.56	2	3.12	
	TOTAL				437.96	W
	Add 1 % Water charges on "W-A"		387.16		3.87	
	TOTAL				441.83	X
	Add GST (multiplying factor 0.1405) on "X-A"		391.03		54.94	
	TOTAL				496.77	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		445.97		66.90	
	Total				563.67	Z
	Add Cess @ 1% on "Z-A"		512.87		5.13	
	Cost of 2 metres				568.80	
	Cost of 1 metre				284.40	
	Say				284.40	
14.28.2	25 mm diameter.					
	Detail of cost for 2 metre long					
	MATERIAL					
445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	2.00	190.00	380.00	
446	Brass brackets (curtain rods) 20 mm	each	2.00	45.00	90.00	
9999	Screws	L.S.	2.73	2.00	5.46	
9977	Carriage	L.S.	1.56	2.00	3.12	
	Wooden plugs including cutting brick work and fixing in cement mortar					
8.23	Rate as per item no 8.23 of SH : Cladding work	each	2.00	25.40	50.80	A
9999	LABOUR	L.S.	2.73	2	5.46	
9999	Sundries	L.S.	1.56	2	3.12	
	TOTAL				537.96	W
	Add 1 % Water charges on "W-A"		487.16		4.87	
	TOTAL				542.83	X
	Add GST (multiplying factor 0.1405) on "X-A"		492.03		69.13	
	TOTAL				611.96	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		561.16		84.17	
	Total				696.14	Z
	Add Cess @ 1% on "Z-A"		645.34		6.45	
	Cost of 2 metres				702.59	
	Cost of 1 metre				351.29	
	Say				351.30	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.				
	Details of cost for 33.67 kg.				
	Details of cost for window -140x110cm				
	MATERIAL				
	M.S. bar 16 mm dia 13x136 cm				
	= 17.68 m @ 1.58 kg/m = 27.93 kg				
	Add for wastage @ 10% =2.79 kg				
	Total = 30.72 kg or 0.307 q				
1003	Mild steel round bar above 12 mm dia	quintal	0.307	4400.00	1350.80
	M.S. flat 40x6mm 2x96cm = 192cm+				
	1x110cm = 110cm				
	= 302cm+				
	Add wastage @ 10% = 30cm				
	Total = 332cm.@ 1.90 kg/m = 6.31 kg Say				
	0.063 q				
1008	Flats upto 10 mm in thickness	quintal	0.063	4500.00	283.50
2205	Carriage of Steel	tonne	0.037	94.34	3.49
	(0.307+0.063 = 0.37 q = 0.037 t)				
9999	Sundries	L.S.	26.91	2.00	53.82
	LABOUR				
0013	Blacksmith 2nd class	day	0.35	374.50	131.08
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.45	320.83	144.37
	TOTAL				2041.96 W
	Add 1 % Water charges on "W"				20.42
	TOTAL				2062.38 X
	Add GST (multiplying factor 0.1405) on "X"				289.76
	TOTAL				2352.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				352.82
	Total				2704.96 Z
	Add Cess @ 1% on "Z"				27.05
	Cost of 33.67 kg.(5.74+27.93=33.67kg)				2732.01
	Cost of 1 kg.				81.14
	Say				81.15
14.30	Providing joists (karries) including hoisting, fixing in position and applying wood preservative on unexposed surface etc. complete with :				
14.30.1	Sal wood				
	Details of cost for 300cudm.				
	MATERIAL				
	Sal wood				
	10x0.1mx0.1mx3.0m = 0.30 cum. or				
	= 300 cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 2% = 6.00 cumdm. Total = 306 cumdm.				
1199	Sal wood in scantling	10 cumdm	30.60	600.00	18360.00
2204	Carriage of Timber	cum	0.306	121.29	37.12
	LABOUR				
0015	Carpenter 2nd class	day	0.70	374.50	262.15
0017	Beldar	day	1.45	320.83	465.20
0010	Bandhani	day	0.70	320.83	224.58
	Priming coat (Wood preservative)				
13.57.1	Rate as per item no 13.57.1 SH : Finishing	sqm	0.80	33.65	26.92 A
9999	Sundries	L.S.	26.91	2	53.82
	TOTAL				19429.79 W
	Add 1 % Water charges on "W-A"	19402.87			194.03
	TOTAL				19623.82 X
	Add GST (multiplying factor 0.1405) on "X-A"	19596.90			2753.36
	TOTAL				22377.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	22350.26			3352.54
	Total				25729.72 Z
	Add Cess @ 1% on "Z-A"	25702.80			257.03
	Cost of 300 cumdm.				25986.75
	Cost of 1 cum.				86622.51
	Say				86622.50
14.30.2	Hollock wood				
	Details of cost for 300cumdm.				
	MATERIAL				
	Hollock wood in scantling 10x0.1mx0.1mx3.0m = 0.30 cum. or = 300 cumdm				
	Add wastage @ 2% = 6.00 cumdm. Total = 306 cumdm.				
2466	Hollock wood in scantling	10 cumdm	30.60	350.00	10710.00
2204	Carriage of Timber	cum	0.306	121.29	37.12
	LABOUR				
0015	Carpenter 2nd class	day	0.70	374.50	262.15
0017	Beldar	day	1.45	320.83	465.20
0010	Bandhani	day	0.70	320.83	224.58
	Priming coat (Wood preservative)				
13.57.1	Rate as per item no 13.57.1 SH : Finishing	sqm	0.80	33.65	26.92 A
9999	Sundries	L.S.	26.91	2	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				11779.79 W
	Add 1 % Water charges on "W-A"	11752.87			117.53
	TOTAL				11897.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	11870.40			1667.79
	TOTAL				13565.11 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	13538.19			2030.73
	Total				15595.84 Z
	Add Cess @ 1% on "Z-A"	15568.92			155.69
	Cost of 300 cu dm.				15751.53
	Cost of 1 cu m.				52505.10
	Say				52505.10
14.31	Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :				
14.31.1	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
389	Brass single acting spring hinges 150 mm	each	10.00	425.00	4250.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				4687.85 W
	Add 1 % Water charges on "W"				46.88
	TOTAL				4734.72 X
	Add GST (multiplying factor 0.1405) on "X"				665.23
	TOTAL				5399.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				809.99
	Total				6209.95 Z
	Add Cess @ 1% on "Z"				62.10
	Cost of 10 hinges				6272.05
	Cost of each				627.20
	Say				627.20
14.31.2	125 mm				
	Details of cost for 10 nos.				
	MATERIAL				
390	Brass single acting spring hinges 125 mm	each	10.00	285.00	2850.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				3287.85 W
	Add 1 % Water charges on "W"				32.88
	TOTAL				3320.72 X
	Add GST (multiplying factor 0.1405) on "X"				466.56
	TOTAL				3787.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				568.09
	Total				4355.38 Z
	Add Cess @ 1% on "Z"				43.55
	Cost of 10 hinges				4398.93
	Cost of each				439.89
	Say				439.90
14.31.3	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
391	Brass single acting spring hinges 100 mm	each	10.00	250.00	2500.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				2897.85 W
	Add 1 % Water charges on "W"				28.98
	TOTAL				2926.82 X
	Add GST (multiplying factor 0.1405) on "X"				411.22
	TOTAL				3338.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				500.71
	Total				3838.75 Z
	Add Cess @ 1% on "Z"				38.39
	Cost of 10 hinges				3877.14
	Cost of each				387.71
	Say				387.70
14.32	Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :				
14.32.1	150 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL				
392	Brass double acting spring hinges 150 mm	each	10.00	480.00	4800.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				5237.85 W
	Add 1 % Water charges on "W"				52.38
	TOTAL				5290.22 X
	Add GST (multiplying factor 0.1405) on "X"				743.28
	TOTAL				6033.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				905.03
	Total				6938.53 Z
	Add Cess @ 1% on "Z"				69.39
	Cost of 10 hinges				7007.91
	Cost of each				700.79
	Say				700.80

14.32.2 125 mm

Details of cost for 10 nos.

MATERIAL

393	Brass double acting spring hinges 125 mm	each	10.00	400.00	4000.00
449	Brass screws 50 mm	100 Nos	0.80	220.00	176.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28

LABOUR

0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17

TOTAL 4437.85 W

Add 1 % Water charges on "W" 44.38

TOTAL 4482.22 X

Add GST (multiplying factor 0.1405) on "X" 629.75

TOTAL 5111.98 Y

Add 15 % Contractor's profit and overheads on "Y" 766.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				5878.77 Z
	Add Cess @ 1% on "Z"				58.79
	Cost of 10 hinges				5937.56
	Cost of each				593.76
	Say				593.75
14.32.3	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
394	Brass double acting spring hinges 100 mm	each	10.00	390.00	3900.00
450	Brass screws 40 mm	100 Nos	0.80	170.00	136.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				4297.85 W
	Add 1 % Water charges on "W"				42.98
	TOTAL				4340.82 X
	Add GST (multiplying factor 0.1405) on "X"				609.89
	TOTAL				4950.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				742.61
	Total				5693.32 Z
	Add Cess @ 1% on "Z"				56.93
	Cost of 10 hinges				5750.25
	Cost of each				575.03
	Say				575.05
14.33	Providing and fixing bright finished brass flush bolts with necessary brass screws etc. complete :				
14.33.1	250 mm				
	Details of cost for 10 nos.				
	MATERIAL				
404	Brass flush bolt 250 mm	each	10.00	150.00	1500.00
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	Day	0.20	476.00	95.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1662.48 W
	Add 1 % Water charges on "W"				16.62
	TOTAL				1679.10 X
	Add GST (multiplying factor 0.1405) on "X"				235.91
	TOTAL				1915.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				287.25
	Total				2202.27 Z
	Add Cess @ 1% on "Z"				22.02
	Cost of 10 hinges				2224.29
	Cost of each				222.43
	Say				222.45

14.33.2 150 mm

Details of cost for 10 nos.

MATERIAL

405	Brass flush bolt 150 mm	each	10.00	130.00	1300.00
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46

LABOUR

0014	Carpenter 1st class	day	0.17	476.00	80.92
	TOTAL				1446.38 W
	Add 1 % Water charges on "W"				14.46
	TOTAL				1460.84 X
	Add GST (multiplying factor 0.1405) on "X"				205.25
	TOTAL				1666.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				249.91
	Total				1916.01 Z
	Add Cess @ 1% on "Z"				19.16
	Cost of 10 hinges				1935.17
	Cost of each				193.52
	Say				193.50

14.33.3 100 mm

Details of cost for 10 nos.

MATERIAL

406	Brass flush bolt 100 mm	each	10.00	90.00	900.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
452	Brass screws 25 mm	100 Nos	0.60	100.00	60.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
	TOTAL				1046.38 W
	Add 1 % Water charges on "W"				10.46
	TOTAL				1056.84 X
	Add GST (multiplying factor 0.1405) on "X"				148.49
	TOTAL				1205.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				180.80
	Total				1386.13 Z
	Add Cess @ 1% on "Z"				13.86
	Cost of 10 hinges				1399.99
	Cost of each				140.00
	Say				140.00
14.34	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete				
	Details of cost for 10 nos.				
	MATERIAL				
417	Brass 150 mm floor door stopper (0.357kg)	each	10.00	160.00	1600.00
450	Brass screws 40 mm	100 Nos	0.40	170.00	68.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0014	Carpenter 1st class	day	0.07	476.00	33.32
9999	Sundries (wooden plugs including fixing in the floor)	L.S.	6.37	2.00	12.74
	TOTAL				1719.52 W
	Add 1 % Water charges on "W"				17.20
	TOTAL				1736.72 X
	Add GST (multiplying factor 0.1405) on "X"				244.01
	TOTAL				1980.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				297.11
	Total				2277.83 Z
	Add Cess @ 1% on "Z"				22.78
	Cost of 10 Nos				2300.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				230.06
	Say				230.05
14.35	Providing and fixing bright finished brass hard drawn hooks and eyes :				
14.35.1	300 mm				
	Details of cost for 10 nos.				
	MATERIAL				
418	Brass hard drawn hooks and eyes 300 mm	10 Nos	1.00	600.00	600.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				630.38 W
	Add 1 % Water charges on "W"				6.30
	TOTAL				636.68 X
	Add GST (multiplying factor 0.1405) on "X"				89.45
	TOTAL				726.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				108.92
	Total				835.06 Z
	Add Cess @ 1% on "Z"				8.35
	Cost of 10 Nos				843.41
	Cost of each				84.34
	Say				84.35
14.35.2	250 mm				
	Details of cost for 10 nos.				
	MATERIAL				
419	Brass hard drawn hooks and eyes 250 mm	10 Nos	1.00	574.00	574.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				604.38 W
	Add 1 % Water charges on "W"				6.04
	TOTAL				610.42 X
	Add GST (multiplying factor 0.1405) on "X"				85.76
	TOTAL				696.19 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				104.43
	Total				800.62 Z
	Add Cess @ 1% on "Z"				8.01
	Cost of 10 hooks and eyes				808.62
	Cost of 1 hook and eye				80.86
	Say				80.85
14.35.3	200 mm				
	Details of cost for 10 nos.				
	MATERIAL				
420	Brass hard drawn hooks and eyes 200 mm	10 Nos	1.00	510.00	510.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				540.38 W
	Add 1 % Water charges on "W"				5.40
	TOTAL				545.78 X
	Add GST (multiplying factor 0.1405) on "X"				76.68
	TOTAL				622.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.37
	Total				715.84 Z
	Add Cess @ 1% on "Z"				7.16
	Cost of 10 Nos				722.99
	Cost of each				72.30
	Say				72.30
14.35.4	150 mm				
	Details of cost for 10 nos.				
	MATERIAL				
421	Brass hard drawn hooks and eyes 150 mm	10 Nos	1.00	400.00	400.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				430.38 W
	Add 1 % Water charges on "W"				4.30
	TOTAL				434.68 X
	Add GST (multiplying factor 0.1405) on "X"				61.07
	TOTAL				495.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				570.12 Z
	Add Cess @ 1% on "Z"				5.70
	Cost of 10 Nos				575.82
	Cost of each				57.58
	Say				57.60
14.35.5	100 mm				
	Details of cost for 10 nos.				
	MATERIAL				
422	Brass hard drawn hooks and eyes 100 mm	10 Nos	1.00	345.00	345.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
	TOTAL				375.38 W
	Add 1 % Water charges on "W"				3.75
	TOTAL				379.13 X
	Add GST (multiplying factor 0.1405) on "X"				53.27
	TOTAL				432.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.86
	Total				497.26 Z
	Add Cess @ 1% on "Z"				4.97
	Cost of 10 Nos				502.24
	Cost of each				50.22
	Say				50.20
14.36	Providing and fixing bright finished brass fan light pivot with necessary brass screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
429	Brass fanlight pivot	10 Nos	1.00	168.00	168.00
450	Brass screws 40 mm	100 Nos	0.40	170.00	68.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				275.90 W
	Add 1 % Water charges on "W"				2.76
	TOTAL				278.66 X
	Add GST (multiplying factor 0.1405) on "X"				39.15
	TOTAL				317.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				365.48 Z
	Add Cess @ 1% on "Z"				3.65
	Cost of 10 Nos				369.14
	Cost of each				36.91
	Say				36.90
14.37	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary brass screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
430	Brass chain with hook for fan light catch	each	10.00	36.00	360.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				449.42 W
	Add 1 % Water charges on "W"				4.49
	TOTAL				453.91 X
	Add GST (multiplying factor 0.1405) on "X"				63.77
	TOTAL				517.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				77.65
	Total				595.34 Z
	Add Cess @ 1% on "Z"				5.95
	Cost of 10 Nos				601.30
	Cost of each				60.13
	Say				60.15
14.38	Providing and fixing bright finished brass quadrant stay 300 mm long with necessary brass screws etc. complete.				
	Details of cost for 10 nos.				
	MATERIAL				
427	Brass quadrant stays 300 mm	each	10.00	110.00	1100.00
452	Brass screws 25 mm	100 Nos	0.40	100.00	40.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
	TOTAL				1189.42 W
	Add 1 % Water charges on "W"				11.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1201.31 X
	Add GST (multiplying factor 0.1405) on "X"				168.78
	TOTAL				1370.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				205.51
	Total				1575.61 Z
	Add Cess @ 1% on "Z"				15.76
	Cost of 10 quadrant stayes				1591.37
	Cost of each				159.14
	Say				159.15
14.39	Providing and fixing bright finished brass helical door spring (superior quality).				
	Details of cost for 10 nos.				
	MATERIAL				
442	Brass helical spring 150 mm	each	10.00	290.00	2900.00
449	Brass screws 50 mm	100 Nos	0.40	220.00	88.00
452	Brass screws 25 mm	100 Nos	0.20	100.00	20.00
9977	Carriage of material	L.S.	3.84	2.00	7.68
	LABOUR				
0014	Carpenter 1st class	day	0.40	476.00	190.40
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				3270.25 W
	Add 1 % Water charges on "W"				32.70
	TOTAL				3302.95 X
	Add GST (multiplying factor 0.1405) on "X"				464.06
	TOTAL				3767.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				565.05
	Total				4332.06 Z
	Add Cess @ 1% on "Z"				43.32
	Cost of 10 Nos				4375.39
	Cost of each				437.54
	Say				437.55
14.40	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.				
14.40.1	125x70x4 mm (ordinary type)				
	Details of cost for 10 nos.				
	MATERIAL				
525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4 mm	10 Nos	1.00	805.00	805.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
585	Chromium plated Brass screws 50 mm	100 Nos	1.00	300.00	300.00
9977	Carriage of material	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1211.00 W
	Add 1 % Water charges on "W"				12.11
	TOTAL				1223.11 X
	Add GST (multiplying factor 0.1405) on "X"				171.85
	TOTAL				1394.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				209.24
	Total				1604.20 Z
	Add Cess @ 1% on "Z"				16.04
	Cost of 10 Nos				1620.25
	Cost of each				162.02
	Say				162.00

14.40.2 100x70x4 mm (ordinary type)

Details of cost for 10 nos.

MATERIAL

526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	1.00	690.00	690.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.80	290.00	232.00
9977	Carriage of material	L.S.	3.64	2.00	7.28
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1028.00 W
	Add 1 % Water charges on "W"				10.28
	TOTAL				1038.28 X
	Add GST (multiplying factor 0.1405) on "X"				145.88
	TOTAL				1184.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				177.62
	Total				1361.79 Z
	Add Cess @ 1% on "Z"				13.62
	Cost of 10 Nos				1375.40
	Cost of each				137.54
	Say				137.55

14.40.3 75x65x4 mm (heavy type)

Details of cost for 10 nos.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
524	Chromium plated Brass butt hinges (heavy) type 75x65x4 .0 mm (200gms)	10 Nos	1.00	905.00	905.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				1151.36 W
	Add 1 % Water charges on "W"				11.51
	TOTAL				1162.88 X
	Add GST (multiplying factor 0.1405) on "X"				163.38
	TOTAL				1326.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				198.94
	Total				1525.20 Z
	Add Cess @ 1% on "Z"				15.25
	Cost of 10 Nos				1540.45
	Cost of each				154.05
	Say				154.05

14.40.4 75x40x2.5 mm (ordinary type)

Detail of cost for 10 Nos.

MATERIAL

527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	1.00	421.00	421.00
587	Chromium plated Brass screws 30 mm	100 Nos	0.60	240.00	144.00
9977	Carriage of material	L.S.	1.82	2.00	3.64
	LABOUR				
0014	Carpenter 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				667.36 W
	Add 1 % Water charges on "W"				6.67
	TOTAL				674.04 X
	Add GST (multiplying factor 0.1405) on "X"				94.70
	TOTAL				768.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				115.31
	Total				884.05 Z
	Add Cess @ 1% on "Z"				8.84
	Cost of 10 Nos				892.89
	Cost of each				89.29
	Say				89.30

14.40.5 50x40x2.5 mm (ordinary type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL				
528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	1.00	180.00	180.00
589	Chromium plated Brass screws 20 mm	100 Nos	0.40	160.00	64.00
9977	Carriage of material	L.S.	0.91	2.00	1.82
	LABOUR				
0014	Carpenter 1st class	day	0.08	476.00	38.08
	TOTAL				283.90 W
	Add 1 % Water charges on "W"				2.84
	TOTAL				286.74 X
	Add GST (multiplying factor 0.1405) on "X"				40.29
	TOTAL				327.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.05
	Total				376.08 Z
	Add Cess @ 1% on "Z"				3.76
	Cost of 10 Nos				379.84
	Cost of each				37.98
	Say				38.00
14.41	Providing and fixing 85x42 mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.				
	Details of cost for 10 Nos				
	MATERIAL				
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42 mm with screws,bolts,nuts and washers complete	each	10.00	165.00	1650.00
9988	Carriage of materials & sundries	L.S.	6.37	2.00	12.74
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
	TOTAL				1756.37 W
	Add 1 % Water charges on "W"				17.56
	TOTAL				1773.93 X
	Add GST (multiplying factor 0.1405) on "X"				249.24
	TOTAL				2023.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				303.47
	Total				2326.64 Z
	Add Cess @ 1% on "Z"				23.27
	Cost of 10 Nos				2349.91
	Cost of each				234.99
	Say				235.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

- 14.42 Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.**

Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.

Details of cost for area 22.5m x 9.0m = 202.5 sqm

14.42X	Rate as per Item No.14.72X of SH:Repairs to Buildings	each	1.00	7676.50	7676.50
2205	Carriage of Steel	tonne	6.054	94.34	571.12
	40mm dia MS pipe = 3765.42 kg				
	25mm spigot = 123.98 kg				
	Nuts & bolts = 37.80 kg				
	Clamp = 120 nos @ 1.00kg each = 120.00 kg				
	Challies = 90 nos @ 15.00kg each = 1350.00 kg				
	Cup locks = 1314 nos @ 0.50kg each = 657.00 kg				
	Total = 6054.20 kg = 6.054 tonne				
	LABOUR				
0019	Fitter (grade 1)	day	15.50	476.00	7378.00
0017	Beldar	day	31.00	320.83	9945.73
9999	Sundries	L.S.	1035	2.00	2070.00
	TOTAL				27641.35 W
	Add 1 % Water charges on "W"				276.41
	TOTAL				27917.76 X
	Add GST (multiplying factor 0.1405) on "X"				3922.45
	TOTAL				31840.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				4776.03
					36616.24 Z
	Add Cess @ 1% on "Z"				366.16
	Detail of cost for 202.50 sqm				36982.40
	Cost of per Sqm				182.63
	Say				182.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.42X	Scaffolding				
	Details of cost for area 22.5 x 9.0				
	= 202.50 sqm				
	MATERIAL				
	Assuming shuttering material will become unserviceable after use of 40 times				
7397	Base jack	each	14.00	145.00	2030.00
	7x2=14 nos				
4009	Mild steel tubes hot finished welded type	kilogram	3765.42	57.00	214628.94
	40mm dia M.S. Tube				
	Vertical standard 2.5m length				
	= 7x2x9x2.5 = 315.00 m				
	Bracing ladder 1.5m length = 7x2x9x4.0873				
	= 513.00 m				
	Side support 6.00m length = 3x2x6.00				
	= 36.00 m				
	Horizontal support 3.00m length				
	= 18x3x3.00 = 162.00 m				
	Total = 1026.00m @ 3.67 kg/m = 3765.42 kg				
7387	Spigot for standard jointing	kg	123.98	43.00	5331.14
	7x2x9 = 126 nos x 0.40m length = 50.40m				
	50.40m @ 2.46kg/m = 123.98kg				
1034	Bolts and nuts upto 300 mm in length	quintal	0.378	4800.00	1814.40
	2x7x2x9 = 252 nos @ 0.15 kg each				
	= 37.80 kg = 0.378 q				
7346	Double coupler	each	120.00	46.00	5520.00
	2x3x2 + 2x18x3 = 120 nos				
7398	Challies	each	90.00	765.00	68850.00
	3 nos x 18 lines = 54 nos				
	Two level plate challies = 2x 18 lines				
	= 36 nos, Total = 90 nos				
7399	Cup lock	each	1314.00	48.00	63072.00
	Vertical standards 5x7x2x9 = 630.00 Nos.				
	2x18x19 = 684 Nos.				
	Total = 1314 Nos.				
	TOTAL				
	Add 10% for maintenance on P				36124.65 Q
	Less 25% salvage value on P				-90311.62 R
	TOTAL (P+Q+R)				307059.51
	Considering that scaffolding shall be unserviceable after using 40 times, cost of using once				7676.49
	Say				7676.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.43	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.				
	Details of cost for 10 nos (10 x 0.20 = 2.00 kg)				
	MATERIAL				
423	Brass casement window fastener	each	10.00	45.00	450.00
9999	Fixing charges including welding and materials etc.	L.S.	125.58	2.00	251.16
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	TOTAL				708.44 W
	Add 1 % Water charges on "W"				7.08
	TOTAL				715.52 X
	Add GST (multiplying factor 0.1405) on "X"				100.53
	TOTAL				816.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				122.41
	Total				938.46 Z
	Add Cess @ 1% on "Z"				9.38
	Cost of 2.00kg window fasteners				947.85
	Cost of 1 kg window fastener				473.92
	Say				473.90
14.44	Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete.				
	Details of cost for 10 nos				
	MATERIAL				
428	Brass fanlight catch	10 Nos	1.00	170.00	170.00
9999	Fixing charges including welding and materials etc.	L.S.	125.58	2.00	251.16
9977	Carriage of materials	L.S.	3.64	2.00	7.28
	TOTAL				428.44 W
	Add 1 % Water charges on "W"				4.28
	TOTAL				432.72 X
	Add GST (multiplying factor 0.1405) on "X"				60.80
	TOTAL				493.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.03
	Total				567.55 Z
	Add Cess @ 1% on "Z"				5.68
	Cost of 10 window fasteners				573.23
	Cost of each				57.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				57.30

14.45 Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.

Details of cost for 10 sqm

MATERIAL

772	White cement based polymer modified self curing compound in powder form i/c 2% wastage	kg	125	15.00	1875.00
9977	Carriage of white cement based polymer modified self curing compound in powder form	L.S.	21.10	2.00	42.20

LABOUR

0040	Mason (average)	day	1.21	374.50	453.15
0017	Beldar	day	0.54	320.83	173.25
0018	Coolie	day	1.29	320.83	413.87
9999	Scaffolding and sunderies	L.S.	15.21	2.00	30.42

TOTAL 2987.88 W

Add 1 % Water charges on "W" 29.88

TOTAL 3017.76 X

Add GST (multiplying factor 0.1405) on "X" 424.00

TOTAL 3441.76 Y

Add 15 % Contractor's profit and overheads on "Y" 516.26

Total 3958.02 Z

Add Cess @ 1% on "Z" 39.58

Cost of 10 sqm 3997.60

Cost of 1 sqm 399.76

Say 399.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.46	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)				
	Details of cost for 10 tanks				
	1 tank is of 500 litres capacity i.e. 5000 litres				
	MATERIAL				
1301	Bleaching powder	quintal	0.025	1800.00	45.00
2264	Carriage of Rubbish	cum	0.25	106.13	26.53
	(assuming 0.040m depth of silt)				
9999	Marking with paint i/c removal of existing markings	L.S.	30.00	2.00	60.00
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter for opening ball cock wheel valve and other fittings	day	1.00	374.50	374.50
0017	Beldar	day	1.00	320.83	320.83
	for cleaning disinfecting etc				
	TOTAL				826.86 W
	Add 1 % Water charges on "W"				8.27
	TOTAL				835.13 X
	Add GST (multiplying factor 0.1405) on "X"				117.34
	TOTAL				952.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.87
	Total				1095.34 Z
	Add Cess @ 1% on "Z"				10.95
	Cost of 5000 litres				1106.29
	Cost of 1 litre				0.22
	Say				0.20
14.47	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.				
	Details of cost for 10 Nos.				
	LABOUR				
0029	Sewerman	day	1.00	320.83	320.83
9999	T & P Bamboo, bucket, wheel barrow etc.	L.S.	11.2	2.00	22.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				343.23 W
	Add 1 % Water charges on "W"				3.43
	TOTAL				346.66 X
	Add GST (multiplying factor 0.1405) on "X"				48.71
	TOTAL				395.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.31
	Total				454.67 Z
	Add Cess @ 1% on "Z"				4.55
	Cost of 10 nos				459.22
	Cost of each				45.92
	Say				45.90
14.48	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.				
	Details of Cost for 208 metres				
	MATERIAL				
9999	Soap, brush, cloths & sundries	L.S.	345.00	2.00	690.00
8500	Water for jetting / blowback Machineries	1000 litre	0.002	1500.00	3.00
083	Hire Charges of Suction Jeting machine	day	1.00	36000.00	36000.00
	2200 PSI machine i/c POL and operator				
	LABOUR				
0037	Skilled Beldar (for floor rubbing etc.)	day	4.00	320.83	1283.32
0044	Technician	day	1.00	374.50	374.50
	TOTAL				38350.82 W
	Add 1 % Water charges on "W"				383.51
	TOTAL				38734.33 X
	Add GST (multiplying factor 0.1405) on "X"				5442.17
	TOTAL				44176.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				6626.48
	Total				50802.98 Z
	Add Cess @ 1% on "Z"				508.03
	Cost of 208 metres				51311.01
	Cost of 1.00 metre				246.69
	Say				246.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.49	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.				
	Let a underground tank of capacity 272000 litre or 272 KL and area of tank is 570sqm (a) Dewater and slit cleaning Considering through pumping 20% of water to be lifted, water discharge =(272 x 20/ 100=54.40KL) Cost of pumping water with pump of capacity 4000 litres per hours , = (54.4/4 = 13.6 hours = @ 8 hours/ dav = 1.7 dav)				
011	Hire charges of Pump set of capacity 4000 litres/hour	day	1.70	700.00	1190.00
0017	Beldar	day	10.88	320.83	3490.63
	(b) Scrabing the internal surface of tank				
0017	Beldar	day	5.13	320.83	1645.86
0018	Coolie	day	2.28	320.83	731.49
0011	Bhisti	day	2.28	320.83	731.49
9999	Sundries	L.S.	142.5	2.00	285.00
	(c) Bleaching				
1301	Bleaching powder	quintal	0.57	1800.00	1026.00
006	Hire charges of Spraying machine including electric charges	day	14.25	250.00	3562.50
0036	Sprayer (for bitumen, tar etc.)	day	14.25	320.83	4571.83
058	Air compressor	hour	2.00	200.00	400.00
0017	Beldar	day	0.25	320.83	80.21
	(e) Ultra Violet Radiation				
081	Using cost of Ultra Violet Radiation tube	hour	0.50	189.00	94.50
0017	Beldar	day	0.0625	320.83	20.05
	TOTAL				17829.56 W
	Add 1 % Water charges on "W"				178.30
	TOTAL				18007.86 X
	Add GST (multiplying factor 0.1405) on "X"				2530.10
	TOTAL				20537.96 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				3080.69
	Total				23618.65 Z
	Add Cess @ 1% on "Z"				236.19
	Cost of 570 sqm				23854.84
	Cost of 1 sqm				41.85
	Say				41.85
14.50	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.				
	Details of cost for 1 No				
	LABOUR				
	For disconnecting & dismantling of existing W/s line of water storage tanks on terrace of Assistant Fitter or 2nd class Fitter	day	0.10	374.50	37.45
0020					
0017	Beldar	day	0.10	320.83	32.08
	For Bringing the tank at Ground Level				
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	1.10	2.00	2.20
	TOTAL				135.90 W
	Add 1 % Water charges on "W"				1.36
	TOTAL				137.26 X
	Add GST (multiplying factor 0.1405) on "X"				19.28
	TOTAL				156.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				23.48
	Total				180.02 Z
	Add Cess @ 1% on "Z"				1.80
	Cost for each				181.82
	Say				181.80
14.51	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.				
14.51.1	Long pattern W.C Pan of size 580x440 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 1 no.					
MATERIAL					
1953	Vitreous china Indian type W.C. pan size 580 mm	each	1.00	450.00	450.00
1970	Vitreous china foot rests 250x125x25 mm	pair	1.00	100.00	100.00
1890	Centrifugally sand cast (spun) S&S "P" or "S" trap	each	1.00	300.00	300.00
9999	Cement sand & grit etc.	L.S.	13.36	2.00	26.72
9977	Carriage of materials Less for	L.S.	13.52	2.00	27.04
1880	Dismantled "P" or "S" trap scrap (app. Wt 2 kg.)	kg	-2.00	22.00	-44.00
LABOUR					
(a) For dismantling WC seat and P or S trap					
0029	Sewerman	day	0.05	320.83	16.04
0017	Beldar	day	0.20	320.83	64.17
(b) For Fixing WC seat and "P" or "S" trap					
0026	Mason 1st class	day	0.80	476.00	380.80
0017	Beldar	day	0.80	320.83	256.66
TOTAL					1577.43 W
Add 1 % Water charges on "W"					15.77
TOTAL					1593.21 X
Add GST (multiplying factor 0.1405) on "X"					223.85
TOTAL					1817.05 Y
Add 15 % Contractor's profit and overheads on "Y"					272.56
Total					2089.61 Z
Add Cess @ 1% on "Z"					20.90
Cost for each					2110.51
Say					2110.50

14.51.2 Orissa pattern W.C Pan of size 580x440 mm

Details of cost for 1 no.

MATERIAL

1954	Vitreous china orrisa type W.C. pan size 580 mm	each	1.00	1200.00	1200.00
1890	Centrifugally sand cast (spun) S&S "P" or "S" trap	each	1.00	300.00	300.00
9999	Cement sand & grit etc.	L.S.	13.36	2.00	26.72
9977	Carriage of materials Less for	L.S.	13.52	2.00	27.04
1880	Dismantled "P" or "S" trap scrap	kg	-2.00	22.00	-44.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(app. Wt 2 kg.) LABOUR				
	(a) For dismantling WC seat and P or S trap				
0029	Sewerman	day	0.05	320.83	16.04
0017	Beldar	day	0.125	320.83	40.10
	(b) For Fixing WC seat and "P" or "S" trap				
0026	Mason 1st class	day	0.80	476.00	380.80
0017	Beldar	day	0.80	320.83	256.66
	TOTAL				2203.37 W
	Add 1 % Water charges on "W"				22.03
	TOTAL				2225.40 X
	Add GST (multiplying factor 0.1405) on "X"				312.67
	TOTAL				2538.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				380.71
	Total				2918.78 Z
	Add Cess @ 1% on "Z"				29.19
	Cost for each				2947.97
	Say				2947.95

14.52 Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.

Detail of Cost for 10 holes

Size 0.30x0.30x0.23 m wall

MATERIAL

12 mm plaster 1:4 (1 Cement: 4 Coarse sand)

Actual Area (10x4x0.3x0.23) = 0.296 + 0.24

L.S. For corners/sides = 3.00 Sqm

13.4.1	Rate as per Item No.13.4.1 of SH:FINISHING	sqm	3.00	182.15	546.46 A

7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	0.25	840.00	210.00

9999	Sundries	L.S.	8.06	2.00	16.12

LABOUR

Proportionate labour taken as actually required at site

0023	Mason (brick layer) 1st class (0.16/0.0306)= 0.11 Nos.	day	0.11	476.00	52.36

0024	Mason (brick layer) 2nd class (0.16/0.030)x0.207 = 0.11 Nos.	day	0.11	374.50	41.20

0017	Beldar (1.25x0.207)/0.0306 =1.10 Nos.	day	1.10	320.83	352.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Add L.S. For Delay	L.S.	16.12	2.00	32.24
	TOTAL				1251.28 W
	Add 1 % Water charges on "W-A"	704.83			7.05
	TOTAL				1258.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	711.88			100.02
	TOTAL				1358.35 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	811.89			121.78
	Total				1480.13 Z
	Add Cess @ 1% on "Z-A"	933.68			9.34
	Cost of 10 nos				1489.47
	Cost of each				148.95
	Say				148.95
14.53	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.				
	Details of cost for 1 no.				
	LABOUR				
0017	Beldar	day	0.125	320.83	40.10
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				42.10 W
	Add 1 % Water charges on "W"				0.42
	TOTAL				42.52 X
	Add GST (multiplying factor 0.1405) on "X"				5.97
	TOTAL				48.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.27
	Total				55.77 Z
	Add Cess @ 1% on "Z"				0.56
	Cost of each				56.33
	Say				56.35
14.54	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.				
	Details of cost for 10 Sqm				
	LABOUR				
0017	Beldar	day	0.03	320.83	9.62
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				11.62 W
	Add 1 % Water charges on "W"				0.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				11.74 X
	Add GST (multiplying factor 0.1405) on "X"				1.65
	TOTAL				13.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				2.01
	Total				15.40 Z
	Add Cess @ 1% on "Z"				0.15
	Cost of 10 sqm				15.55
	Cost of 1 sqm				1.56
	Say				1.55
14.55	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge.				
(a)	Internal Work- Exposed on wall				
	Details of cost for 10 metre				
	LABOUR				
9999	Dismantling of G.I. Pipe and stacking etc.	L.S.	10.00	2	20.00
	TOTAL				20.00 W
	Add 1 % Water charges on "W"				0.20
	TOTAL				20.20 X
	Add GST (multiplying factor 0.1405) on "X"				2.84
	TOTAL				23.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				3.46
	Total				26.49 Z
	Add Cess @ 1% on "Z"				0.26
	Cost of 10 metres				26.76
	Cost of 1 metre				2.68
	Say				2.70
14.56	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.				
	Details of cost for one shutter (2.2 sqm)				
	Normal exiting size of shutter				
	1.00x2.02m =2.02sqm				
	MATERIAL				
637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	0.24	60.00	14.40
	Assuming old hinges fixed in Tee iron frames				
	Half qty = 48/2=24 needs replacement				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0041	Carpenter (average)	day	0.18	374.50	67.41
0017	Beldar	day	0.18	320.83	57.75
	TOTAL				139.56 W
	Add 1 % Water charges on "W"				1.40
	TOTAL				140.95 X
	Add GST (multiplying factor 0.1405) on "X"				19.80
	TOTAL				160.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.11
	Total				184.87 Z
	Add Cess @ 1% on "Z"				1.85
	Cost for 2.2 sqm or each shutter				186.72
	Cost for 2.02 sqm or each shutter				171.44
	Say				171.45

- 14.57 Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).**

Details of cost for 30 sqm

MATERIAL

APP modified polymeric felt (two layers)

1.5 mm thick = 2x30 = 60 sqm

Add 10% wastage = 6 sqm Total = 66 sqm

8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	66.00	80.00	5280.00
316	Bitumen solution primer of approved quality 0.4x30 = 12	litre	12.00	45.00	540.00
313	Blown type petroleum bitumen of penetration 85/25 of approved quality 3x36 = 108 kg = 0.108 tonne	tonne	0.108	34000.00	3672.00
2211	Carriage of Tar bitumen	tonne	0.12	106.13	12.74
9977	Carriage of polymeric felt	L.S.	7.80	2.00	15.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
370	Coal (steam)	quintal	0.174	440.00	76.56
2200	Carriage of steam coal	tonne	0.0174	121.29	2.11
9999	Preparing roof surface, cutting grooves and making good the same LABOUR	L.S.	134.55	2.00	269.10
0031	Painter	day	2.16	374.50	808.92
0017	Beldar	day	3.24	320.83	1039.49
0030	Mistry	day	0.18	476.00	85.68
9999	Sundries, brushes etc	L.S.	6.76	2.00	13.52
	TOTAL				11815.72 W
	Add 1 % Water charges on "W"				118.16
	TOTAL				11933.87 X
	Add GST (multiplying factor 0.1405) on "X"				1676.71
	TOTAL				13610.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				2041.59
	Total				15652.17 Z
	Add Cess @ 1% on "Z"				156.52
	Cost for 30 sqm				15808.69
	Cost for 1 sqm				526.96
	Say				526.95
14.58	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/ 25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).				
	Details of cost for 30 sqm				
	MATERIAL				
	APP modified polymeric felt (two layers)				
	2.0 mm thick = 30 sqm				
	Add 10% wastage = 3 sqm				
	Total = 33 sqm				
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	33.00	100.00	3300.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
316	Bitumen solution primer of approved quality 0.4x30 = 12	litre	12.00	45.00	540.00
313	Blown type petroleum bitumen of penetration 85/25 of approved quality 1.20x30x2 = 72 kg = 0.072 tonne	tonne	0.072	34000.00	2448.00
2211	Carriage of Tar bitumen	tonne	0.084	106.13	8.91
9977	Carriage of polymeric felt	L.S.	7.80	2.00	15.60
370	Coal (steam)	quintal	0.174	440.00	76.56
2200	Carriage of steam coal	tonne	0.0174	121.29	2.11
9999	Preparing roof surface, cutting grooves and making good the same LABOUR	L.S.	134.55	2.00	269.10
0031	Painter	day	1.58	374.50	591.71
0017	Beldar	day	2.37	320.83	760.37
0030	Mistry	day	0.13	476.00	61.88
9999	Sundries, brushes etc	L.S.	6.76	2.00	13.52
	TOTAL				8087.76 W
	Add 1 % Water charges on "W"				80.88
	TOTAL				8168.64 X
	Add GST (multiplying factor 0.1405) on "X"				1147.69
	TOTAL				9316.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				1397.45
	Total				10713.78 Z
	Add Cess @ 1% on "Z"				107.14
	Cost for 30 sqm				10820.92
	Cost for 1 sqm				360.70
	Say				360.70
14.59	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).				
	Details of cost for 30 sqm				
	MATERIAL				
	APP modified polymeric felt (two layers)				
	2.0 mm thick = 2x30 = 60 sqm				
	Add 10% wastage = 6 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 66 sqm				
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	66.00	100.00	6600.00
316	Bitumen solution primer of approved quality	litre	12.00	45.00	540.00
	0.4x30 = 12				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality 3course x 36 = 108 kg = 0.108 tonne	tonne	0.108	34000.00	3672.00
2211	Carriage of Tar bitumen	tonne	0.12	106.13	12.74
9977	Carriage of polymeric felt	L.S.	7.80	2.00	15.60
370	Coal (steam)	quintal	0.174	440.00	76.56
2200	Carriage of steam coal	tonne	0.0174	121.29	2.11
9999	Preparing roof surface, cutting grooves and making good the same	L.S.	134.55	2.00	269.10
	LABOUR				
0031	Painter	day	2.16	374.50	808.92
0017	Beldar	day	3.24	320.83	1039.49
0030	Mistry	day	0.18	476.00	85.68
9999	Sundries, brushes etc	L.S.	6.76	2.00	13.52
	TOTAL				13135.72 W
	Add 1 % Water charges on "W"				131.36
	TOTAL				13267.07 X
	Add GST (multiplying factor 0.1405) on "X"				1864.02
	TOTAL				15131.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				2269.66
	Total				17400.76 Z
	Add Cess @ 1% on "Z"				174.01
	Cost for 30 sqm				17574.77
	Cost for 1 sqm				585.83
	Say				585.85

- 14.60 Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.60.1	2mm (for corrugated roof sheets)				
	Detail of cost for 30 sqm				
	MATERIAL				
	A.P.P. modified 2 mm thick - 30 sqm				
	Add 10% for wastage - 3 sqm				
	Total = 33 sqm				
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	33.00	126.67	4180.11
8206	Bitumen primer for bitumen membrane	litre	12.00	80.00	960.00
2211	Carriage of Tar bitumen	tonne	0.012	106.13	1.27
9977	Carriage of bitumen membrane	L.S.	7.80	2.00	15.60
1241	Commercial LPG in cylinder	kg	7.00	82.00	574.00
9999	Preparing roof surface, cutting grooves	L.S.	49.53	2.00	99.06
	LABOUR				
0043	Skilled torch operator for laying tack	day	2.16	374.50	808.92
0030	Mistry	day	0.18	476.00	85.68
0017	Beldar	day	3.24	320.83	1039.49
9999	Sundries, brushes, bitumen torch etc	L.S.	23.40	2.00	46.80
	TOTAL				7810.93 W
	Add 1 % Water charges on "W"				78.11
	TOTAL				7889.04 X
	Add GST (multiplying factor 0.1405) on "X"				1108.41
	TOTAL				8997.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				1349.62
	Total				10347.07 Z
	Add Cess @ 1% on "Z"				103.47
	Cost for 30 sqm				10450.54
	Cost for 1 sqm				348.35
	Say				348.35
14.61	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.61.1	3 mm thick				
	Detail of cost for 30 sqm				
	MATERIAL				
	A.P.P. modified 2 mm thick - 30 sqm				
	Add 10% for wastage - 3 sqm				
	Total = 33 sqm				
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	33.00	190.00	6270.00
8206	Bitumen primer for bitumen membrane	litre	12.00	80.00	960.00
2211	Carriage of Tar bitumen	tonne	0.012	106.13	1.27
9977	Carriage of bitumen membrane	L.S.	7.80	2.00	15.60
1241	Commercial LPG in cylinder	kg	7.00	82.00	574.00
9999	Preparing roof surface, cutting grooves	L.S.	49.53	2.00	99.06
	LABOUR				
0043	Skilled torch operator for laying tack	day	2.16	374.50	808.92
0030	Mistry	day	0.18	476.00	85.68
0017	Beldar	day	3.24	320.83	1039.49
9999	Sundries, brushes, bitumen torch etc	L.S.	23.40	2.00	46.80
	TOTAL				9900.82 W
	Add 1 % Water charges on "W"				99.01
	TOTAL				9999.83 X
	Add GST (multiplying factor 0.1405) on "X"				1404.98
	TOTAL				11404.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				1710.72
	Total				13115.53 Z
	Add Cess @ 1% on "Z"				131.16
	Cost for 30 sqm				13246.68
	Cost for 1 sqm				441.55
	Say				441.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
14.62	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with nonwoven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :				
14.62.1	3 mm thick				
	Detail of cost for 30 sqm				
	MATERIAL				
	A.P.P. modified 2 mm thick - 30 sqm				
	Add 10% for wastage - 3 sqm				
	Total = 33 sqm				
8205	A.P.P. modified 3 mm thick membrane reinforced with polyster matt	sqm	33.00	205.00	6765.00
8206	Bitumen primer for bitumen membrane	litre	12.00	80.00	960.00
2211	Carriage of Tar bitumen	tonne	0.012	106.13	1.27
9977	Carriage of bitumen membrane Fuel	L.S.	7.8	2.00	15.60
1241	Commercial LPG in cylinder	kg	7.00	82.00	574.00
9999	Preparing roof surface, cutting grooves	L.S.	49.53	2.00	99.06
	LABOUR				
0043	Skilled torch operator for laying tack	day	2.16	374.50	808.92
0030	Mistry	day	0.18	476.00	85.68
0017	Beldar	day	3.24	320.83	1039.49
9999	Sundries, brushes, bitumen torch etc	L.S.	23.4	2.00	46.80
	TOTAL				10395.82 W
	Add 1 % Water charges on "W"				103.96
	TOTAL				10499.78 X
	Add GST (multiplying factor 0.1405) on "X"				1475.22
	TOTAL				11975.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				1796.25
	Total				13771.25 Z
	Add Cess @ 1% on "Z"				137.71
	Cost for 30 sqm				13908.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 sqm				463.63
	Say				463.65
14.63	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.				
	Detail of cost for 30 sqm				
	MATERIAL				
	Geotextile 120 gsm membrane - 30 sqm				
	Add 5% for wastage - 1.50 sqm				
	Total = 31.50 sqm				
8207	Geotextile 120 gsm membrane	sqm	31.5	45.00	1417.50
9977	Carriage of Geotextile	L.S.	7.80	2.00	15.60
	LABOUR				
0043	Skilled torch operator for laying tack or fitter 2.16 / 5 = 0.43	day	0.43	374.50	161.04
0030	Mistry 0.18 / 5 = 0.04	day	0.04	476.00	19.04
0017	Beldar 3.24-5 / 0.65	day	0.65	320.83	208.54
9999	Sundries, torch, LPG etc	L.S.	46.80	2.00	93.60
	TOTAL				1915.31 W
	Add 1 % Water charges on "W"				19.15
	TOTAL				1934.47 X
	Add GST (multiplying factor 0.1405) on "X"				271.79
	TOTAL				2206.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				330.94
	Total				2537.20 Z
	Add Cess @ 1% on "Z"				25.37
	Cost for 30 sqm				2562.57
	Cost for 1 sqm				85.42
	Say				85.40
14.64	Providing round the clock security guard without gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete,as per the direction of Engineer-in-charge.(One job means 8 hour's duty).				
	Details of cost for 1 job (8hour's duty)				
0048	Security guard (without gun)	day	1.00	359.33	359.33
9999	Lathi, torch, dress & other sundries	L.S.	10.00	2.00	20.00
	TOTAL				379.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.90
	Cost of 1 job				436.23 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				436.25
14.65	Providing round the clock security guard with gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete, as per the direction of Engineer-in-charge.(One job means 8 hour's duty).				
	Details of cost for 1 job (8hour's duty)				
0049	Security guard (with gun)	day	1.00	374.50	374.50
9999	Lathi, torch, uniform, wooden stick & other miscellaneous items	L.S.	10.00	2.00	20.00
	TOTAL				394.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.18
	Cost of 1 job				453.68 Z
	Say				453.70

SUB HEAD : 15.0

DISMANTLING AND DEMOLISHING

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer- in-charge.				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	0.44	320.83	141.17
0018	Coolie	day	0.37	320.83	118.71
9999	Sundries	L.S.	1.04	2.00	2.08
	TOTAL				261.95 W
	Add 1 % Water charges on "W"				2.62
	TOTAL				264.57 X
	Add GST (multiplying factor 0.1405) on "X"				37.17
	TOTAL				301.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.26
	Total				347.01 Z
	Add Cess @ 1% on "Z"				3.47
	Cost of 1.00 cum				350.48
	Say				350.50
15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge.				
15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	1.59	320.83	510.12
0018	Coolie	day	0.72	320.83	231.00
9999	Sundries	L.S.	4.81	2.00	9.62
	TOTAL				750.74 W
	Add 1 % Water charges on "W"				7.51
	TOTAL				758.24 X
	Add GST (multiplying factor 0.1405) on "X"				106.53
	TOTAL				864.78 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				129.72
	Total				994.49 Z
	Add Cess @ 1% on "Z"				9.94
	Cost of 1.00 cum				1004.44
	Say				1004.45
15.2.2 Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)					
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	0.88	320.83	282.33
0018	Coolie	day	0.55	320.83	176.46
9999	Sundries	L.S.	1.95	2.00	3.90
	TOTAL				462.69 W
	Add 1 % Water charges on "W"				4.63
	TOTAL				467.31 X
	Add GST (multiplying factor 0.1405) on "X"				65.66
	TOTAL				532.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.95
	Total				612.92 Z
	Add Cess @ 1% on "Z"				6.13
	Cost of 1.00 cum				619.05
	Say				619.05
15.3 Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.					
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	2.65	320.83	850.20
0018	Coolie	day	0.72	320.83	231.00
9999	Sundries	L.S.	7.02	2.00	14.04
	TOTAL				1095.24 W
	Add 1 % Water charges on "W"				10.95
	TOTAL				1106.19 X
	Add GST (multiplying factor 0.1405) on "X"				155.42
	TOTAL				1261.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				189.24
	Total				1450.85 Z
	Add Cess @ 1% on "Z"				14.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 cum				1465.36
	Say				1465.35
15.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	2.12	320.83	680.16
0018	Coolie	day	0.9	320.83	288.75
9999	Sundries	L.S.	4.68	2.00	9.36
	TOTAL				978.27 W
	Add 1 % Water charges on "W"				9.78
	TOTAL				988.05 X
	Add GST (multiplying factor 0.1405) on "X"				138.82
	TOTAL				1126.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				169.03
	Total				1295.90 Z
	Add Cess @ 1% on "Z"				12.96
	Cost of 1.00 cum				1308.86
	Say				1308.85
15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.				
	Detail of cost for 1 cum				
	R.C.C. or R.B. work Reinforced area				
	considering 1% reinforcement = 0.01sqm				
	LABOUR				
	For cutting 0.01 sqm reinforcement				
0013	Blacksmith 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				374.45 W
	Add 1 % Water charges on "W"				3.74
	TOTAL				378.19 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				53.14
	TOTAL				431.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.70
	Total				496.02 Z
	Add Cess @ 1% on "Z"				4.96
	Cost of 1.00 sqm				500.98
	Say				501.00
15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.				
	Detail of cost for 10 Nos				
	6 metres long 16 mm dia bars @				
	1.58 kg/metre				
	Total weight = 94.80 kg = 0.948 quintal				
	LABOUR				
0013	Blacksmith 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				280.82 W
	Add 1 % Water charges on "W"				2.81
	TOTAL				283.63 X
	Add GST (multiplying factor 0.1405) on "X"				39.85
	TOTAL				323.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.52
	Total				372.00 Z
	Add Cess @ 1% on "Z"				3.72
	Cost of 94.80 kg				375.72
	Cost of 1.00 kg				3.96
	Say				3.95
15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
15.7.1	In mud mortar				
	Detail of cost for 1 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0017	Beldar	day	0.30	320.83	96.25
0018	Coolie	day	0.37	320.83	118.71
9999	Sundries	L.S.	1.04	2.00	2.08
	TOTAL				217.04 W
	Add 1 % Water charges on "W"				2.17
	TOTAL				219.21 X
	Add GST (multiplying factor 0.1405) on "X"				30.80
	TOTAL				250.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.50
	Total				287.51 Z
	Add Cess @ 1% on "Z"				2.88
	Cost of 1.00 cum				290.38
	Say				290.40

15.7.2 In lime mortar with old mughal bricks

Detail of cost for 1 cum

	LABOUR				
0017	Beldar	day	1.24	320.83	397.83
0018	Coolie	day	0.46	320.83	147.58
9999	Sundries	L.S.	1.04	2.00	2.08
	TOTAL				547.49 W
	Add 1 % Water charges on "W"				5.47
	TOTAL				552.97 X
	Add GST (multiplying factor 0.1405) on "X"				77.69
	TOTAL				630.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				94.60
	Total				725.26 Z
	Add Cess @ 1% on "Z"				7.25
	Cost of 1.00 cum				732.51
	Say				732.50

15.7.3 In lime mortar

Detail of cost for 1 cum

	LABOUR				
0017	Beldar	day	0.44	320.83	141.17
0018	Coolie	day	0.37	320.83	118.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	1.04	2.00	2.08
	TOTAL				261.95 W
	Add 1 % Water charges on "W"				2.62
	TOTAL				264.57 X
	Add GST (multiplying factor 0.1405) on "X"				37.17
	TOTAL				301.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.26
	Total				347.01 Z
	Add Cess @ 1% on "Z"				3.47
	Cost of 1.00 cum				350.48
	Say				350.50

15.7.4 In cement mortar

Detail of cost for 1 cum

LABOUR

0017	Beldar	day	1.06	320.83	340.08
0018	Coolie	day	0.90	320.83	288.75
9999	Sundries	L.S.	2.47	2.00	4.94
	TOTAL				633.77 W
	Add 1 % Water charges on "W"				6.34
	TOTAL				640.10 X
	Add GST (multiplying factor 0.1405) on "X"				89.93
	TOTAL				730.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				109.51
	Total				839.55 Z
	Add Cess @ 1% on "Z"				8.40
	Cost of 1.00 cum				847.94
	Say				847.95

15.8 Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured):

15.8.1 From brick work in mud mortar

Detail of cost for 1000 Nos

LABOUR

0017	Beldar	day	2.40	320.83	769.99
0018	Coolie	day	1.60	320.83	513.33
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				1436.76 W
	Add 1 % Water charges on "W"				14.37
	TOTAL				1451.13 X
	Add GST (multiplying factor 0.1405) on "X"				203.88
	TOTAL				1655.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				248.25
	Total				1903.26 Z
	Add Cess @ 1% on "Z"				19.03
	Cost of 1000 Nos				1922.30
	Say				1922.30

15.8.2 From brick work in lime mortar

Detail of cost for 1000 Nos

LABOUR

0017	Beldar	day	2.80	320.83	898.32
0018	Coolie	day	1.40	320.83	449.16
0024	Mason (brick layer) 2nd class	day	0.80	374.50	299.60
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				1665.03 W
	Add 1 % Water charges on "W"				16.65
	TOTAL				1681.68 X
	Add GST (multiplying factor 0.1405) on "X"				236.28
	TOTAL				1917.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				287.69
	Total				2205.64 Z
	Add Cess @ 1% on "Z"				22.06
	Cost of 1000 Nos				2227.70
	Say				2227.70

15.8.3 From brick work in cement mortar

Detail of cost for 1000 Nos

LABOUR

0017	Beldar	day	3.50	320.83	1122.91
0018	Coolie	day	1.50	320.83	481.25
0024	Mason (brick layer) 2nd class	day	1.24	374.50	464.38
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				2084.65 W
	Add 1 % Water charges on "W"				20.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2105.50 X
	Add GST (multiplying factor 0.1405) on "X"				295.82
	TOTAL				2401.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				360.20
	Total				2761.52 Z
	Add Cess @ 1% on "Z"				27.62
	Cost of 1000 Nos				2789.13
	Say				2789.15

15.9 Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :

15.9.1 In lime mortar

Detail of cost for 1 cum

LABOUR

0017	Beldar	day	0.61	320.83	195.71
0018	Coolie	day	0.49	320.83	157.21
9999	Sundries	L.S.	1.95	2.00	3.90
	TOTAL				356.81 W
	Add 1 % Water charges on "W"				3.57
	TOTAL				360.38 X
	Add GST (multiplying factor 0.1405) on "X"				50.63
	TOTAL				411.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.65
	Total				472.67 Z
	Add Cess @ 1% on "Z"				4.73
	Cost of 1.00 cum				477.39
	Say				477.40

15.9.2 In cement mortar

Detail of cost for 1 cum

LABOUR

0017	Beldar	day	1.30	320.83	417.08
0018	Coolie	day	1.04	320.83	333.66
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				756.20 W
	Add 1 % Water charges on "W"				7.56
	TOTAL				763.76 X
	Add GST (multiplying factor 0.1405) on "X"				107.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				871.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				130.66
	Total				1001.73 Z
	Add Cess @ 1% on "Z"				10.02
	Cost of 1.00 cum				1011.75
	Say				1011.75
15.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
15.10.1	In lime mortar				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	0.78	320.83	250.25
0018	Coolie	day	0.61	320.83	195.71
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				451.41 W
	Add 1 % Water charges on "W"				4.51
	TOTAL				455.93 X
	Add GST (multiplying factor 0.1405) on "X"				64.06
	TOTAL				519.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.00
	Total				597.98 Z
	Add Cess @ 1% on "Z"				5.98
	Cost of 1.00 cum				603.96
	Say				603.95
15.10.2	In cement mortar				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	1.55	320.83	497.29
0018	Coolie	day	1.19	320.83	381.79
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				884.53 W
	Add 1 % Water charges on "W"				8.85
	TOTAL				893.38 X
	Add GST (multiplying factor 0.1405) on "X"				125.52
	TOTAL				1018.90 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				152.83
	Total				1171.73 Z
	Add Cess @ 1% on "Z"				11.72
	Cost of 1.00 cum				1183.45
	Say				1183.45
15.11	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured):				
15.11.1	In lime mortar				
	Detail of cost for 1 cum				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.20	320.83	64.17
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	0.52	2.00	1.04
	TOTAL				148.10 W
	Add 1 % Water charges on "W"				1.48
	TOTAL				149.58 X
	Add GST (multiplying factor 0.1405) on "X"				21.02
	TOTAL				170.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.59
	Total				196.18 Z
	Add Cess @ 1% on "Z"				1.96
	Cost of 1.00 cum				198.14
	Say				198.15
15.11.2	In cement mortar				
	Detail of cost for 1 cum				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.40	320.83	128.33
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	0.91	2.00	1.82
	TOTAL				213.04 W
	Add 1 % Water charges on "W"				2.13
	TOTAL				215.17 X
	Add GST (multiplying factor 0.1405) on "X"				30.23
	TOTAL				245.41 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				36.81
	Total				282.22 Z
	Add Cess @ 1% on "Z"				2.82
	Cost of 1.00 cum				285.04
	Say				285.05
15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
15.12.1	Of area 3 sq. metres and below				
	Detail of cost for each				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.18	320.83	57.75
0013	Blacksmith 2nd class	day	0.05	374.50	18.73
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				116.78 W
	Add 1 % Water charges on "W"				1.17
	TOTAL				117.95 X
	Add GST (multiplying factor 0.1405) on "X"				16.57
	TOTAL				134.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.18
	Total				154.70 Z
	Add Cess @ 1% on "Z"				1.55
	Cost of each				156.25
	Say				156.25
15.12.2	Of area beyond 3 sq. metres				
	Detail of cost for each				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.13	374.50	48.69
0017	Beldar	day	0.25	320.83	80.21
0013	Blacksmith 2nd class	day	0.07	374.50	26.22
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				160.57 W
	Add 1 % Water charges on "W"				1.61
	TOTAL				162.17 X
	Add GST (multiplying factor 0.1405) on "X"				22.79
	TOTAL				184.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				212.70 Z
	Add Cess @ 1% on "Z"				2.13
	Cost of each				214.83
	Say				214.85
15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
15.13.1	Of area 3 sq. metres and below				
	Detail of cost for each				
	LABOUR				
0015	Carpenter 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.08	320.83	25.67
9999	Sundries	L.S.	0.52	2.00	1.04
	TOTAL				45.43 W
	Add 1 % Water charges on "W"				0.45
	TOTAL				45.89 X
	Add GST (multiplying factor 0.1405) on "X"				6.45
	TOTAL				52.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.85
	Total				60.18 Z
	Add Cess @ 1% on "Z"				0.60
	Cost of each				60.78
	Say				60.80
15.13.2	Of area beyond 3 sq. metres				
	Detail of cost for each				
	LABOUR				
0015	Carpenter 2nd class	day	0.07	374.50	26.22
0017	Beldar	day	0.10	320.83	32.08
9999	Sundries	L.S.	0.91	2.00	1.82
	TOTAL				60.12 W
	Add 1 % Water charges on "W"				0.60
	TOTAL				60.72 X
	Add GST (multiplying factor 0.1405) on "X"				8.53
	TOTAL				69.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.39
	Total				79.64 Z
	Add Cess @ 1% on "Z"				0.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				80.43
	Say				80.45
15.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :				
15.14.1	Of sectional area 40 square centimetres and above				
	Detail of cost for 1 cum				
	LABOUR				
0015	Carpenter 2nd class	day	2.00	374.50	749.00
0017	Beldar	day	2.00	320.83	641.66
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				1417.44 W
	Add 1 % Water charges on "W"				14.17
	TOTAL				1431.61 X
	Add GST (multiplying factor 0.1405) on "X"				201.14
	TOTAL				1632.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				244.91
	Total				1877.67 Z
	Add Cess @ 1% on "Z"				18.78
	Cost of 1.00 cum				1896.45
	Say				1896.45
15.14.2	Of sectional area below 40 square centimetres				
	Detail of cost for 10 metre				
	LABOUR				
0015	Carpenter 2nd class	day	0.08	374.50	29.96
0017	Beldar	day	0.08	320.83	25.67
9999	Sundries	L.S.	0.52	2.00	1.04
	TOTAL				56.67 W
	Add 1 % Water charges on "W"				0.57
	TOTAL				57.23 X
	Add GST (multiplying factor 0.1405) on "X"				8.04
	TOTAL				65.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.79
	Total				75.07 Z
	Add Cess @ 1% on "Z"				0.75
	Cost of 10.00 metre				75.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 metre				7.58
	Say				7.60
15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :				
15.15.1	Of sectional area 40 square centimetres and above				
	Detail of cost for 1cum for every additional span of 1 metre				
	LABOUR				
0013	Blacksmith 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				197.93 W
	Add 1 % Water charges on "W"				1.98
	TOTAL				199.91 X
	Add GST (multiplying factor 0.1405) on "X"				28.09
	TOTAL				228.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.20
	Total				262.19 Z
	Add Cess @ 1% on "Z"				2.62
	Cost of 1.00 cum per metre span				264.82
	Say				264.80
15.15.2	Of sectional area below 40 square centimetres				
	Detail of cost for 10 metre for every additional span of 1 metre				
	LABOUR				
0013	Blacksmith 2nd class	day	0.006	374.50	2.25
0017	Beldar	day	0.008	320.83	2.57
9999	Sundries	L.S.	0.39	2.00	0.78
	TOTAL				5.59 W
	Add 1 % Water charges on "W"				0.06
	TOTAL				5.65 X
	Add GST (multiplying factor 0.1405) on "X"				0.79
	TOTAL				6.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				0.97
	Total				7.41 Z
	Add Cess @ 1% on "Z"				0.07
	Cost of 10.00 metre per metre span				7.48
	Cost of 1.00 metre per metre span				0.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				0.75
15.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres :				
15.16.1	Of sectional area 40 square centimetres and above				
	Detail of cost for 1 cum for every additional				
	LABOUR				
0013	Blacksmith 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				280.82 W
	Add 1 % Water charges on "W"				2.81
	TOTAL				283.63 X
	Add GST (multiplying factor 0.1405) on "X"				39.85
	TOTAL				323.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.52
	Total				372.00 Z
	Add Cess @ 1% on "Z"				3.72
	Cost of 1.00 cum per metre height				375.72
	Say				375.70
15.16.2	Of sectional area below 40 square centimetres				
	Detail of cost for 10 metre for every				
	additional height of 1 metre				
	LABOUR				
0013	Blacksmith 2nd class	day	0.01	374.50	3.75
0017	Beldar	day	0.02	320.83	6.42
9999	Sundries	L.S.	0.39	2.00	0.78
	TOTAL				10.94 W
	Add 1 % Water charges on "W"				0.11
	TOTAL				11.05 X
	Add GST (multiplying factor 0.1405) on "X"				1.55
	TOTAL				12.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				1.89
	Total				14.49 Z
	Add Cess @ 1% on "Z"				0.14
	Cost of 10.00 metre per metre height				14.64
	Cost of 1.00 metre per metre height				1.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1.45
15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:				
15.17.1	R.S. Joists				
	Detail of cost for 1 quintal				
	LABOUR				
0013	Blacksmith 2nd class	day	0.05	374.50	18.73
0010	Bandhani	day	0.10	320.83	32.08
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				104.39 W
	Add 1 % Water charges on "W"				1.04
	TOTAL				105.44 X
	Add GST (multiplying factor 0.1405) on "X"				14.81
	TOTAL				120.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.04
	Total				138.29 Z
	Add Cess @ 1% on "Z"				1.38
	Cost of 1.00 quintal				139.67
	Cost of 1.00 kg				1.40
	Say				1.40
15.17.2	Channels, angles, tees and flats				
	Detail of cost for 1 quintal				
	LABOUR				
0013	Blacksmith 2nd class	day	0.05	374.50	18.73
0010	Bandhani	day	0.05	320.83	16.04
0017	Beldar	day	0.10	320.83	32.08
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				72.31 W
	Add 1 % Water charges on "W"				0.72
	TOTAL				73.03 X
	Add GST (multiplying factor 0.1405) on "X"				10.26
	TOTAL				83.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.49
	Total				95.79 Z
	Add Cess @ 1% on "Z"				0.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.00 quintal				96.75
	Cost of 1.00 kg				0.97
	Say				0.95
15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.				
	Detail of cost for 1 quintal				
	LABOUR				
0013	Blacksmith 2nd class	day	0.15	374.50	56.18
0010	Bandhani	day	0.10	320.83	32.08
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	4.16	2.00	8.32
	TOTAL				176.79 W
	Add 1 % Water charges on "W"				1.77
	TOTAL				178.55 X
	Add GST (multiplying factor 0.1405) on "X"				25.09
	TOTAL				203.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.55
	Total				234.19 Z
	Add Cess @ 1% on "Z"				2.34
	Cost of 1.00 quintal				236.53
	Cost of 1.00 kg				2.37
	Say				2.35
15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.				
	Detail of cost for 1 quintal				
	LABOUR				
0010	Bandhani	day	0.10	320.830	32.08
0017	Beldar	day	0.25	320.830	80.21
9999	Sundries	L.S.	2.73	2.000	5.46
	TOTAL				117.75 W
	Add 1 % Water charges on "W"				1.18
	TOTAL				118.93 X
	Add GST (multiplying factor 0.1405) on "X"				16.71
	TOTAL				135.64 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				20.35
	Total				155.98 Z
	Add Cess @ 1% on "Z"				1.56
	Cost of 1.00 quintal				157.54
	Cost of 1.00 kg				1.58
	Say				1.60
15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres				
	Detail of cost for 1 quintal for every additional span of 1 metre beyond 10 metre				
	LABOUR				
0010	Bandhani	day	0.02	320.83	6.42
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	0.39	2.00	0.78
	TOTAL				26.45 W
	Add 1 % Water charges on "W"				0.26
	TOTAL				26.71 X
	Add GST (multiplying factor 0.1405) on "X"				3.75
	TOTAL				30.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				4.57
	Total				35.03 Z
	Add Cess @ 1% on "Z"				0.35
	Cost of 1.00 quintal per metre span				35.38
	Cost of 1.00 kg per metre span				0.35
	Say				0.35
15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.				
	Detail of cost for 1 quintal for every additional height of 1 metre beyond 5 metre				
	LABOUR				
0010	Bandhani	day	0.02	320.83	6.42
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	0.39	2.00	0.78
	TOTAL				26.45 W
	Add 1 % Water charges on "W"				0.26
	TOTAL				26.71 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				3.75
	TOTAL				30.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				4.57
	Total				35.03 Z
	Add Cess @ 1% on "Z"				0.35
	Cost of 1.00 quintal per metre height				35.38
	Cost of 1.00 kg per metre height				0.35
	Say				0.35
15.22	Extra for marking of structural steel work required to be re-erected.				
	Detail of cost for 1 quintal				
	LABOUR				
0030	Mistry	day	0.20	476.00	95.20
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				159.37 W
	Add 1 % Water charges on "W"				1.59
	TOTAL				160.96 X
	Add GST (multiplying factor 0.1405) on "X"				22.61
	TOTAL				183.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.54
	Total				211.11 Z
	Add Cess @ 1% on "Z"				2.11
	Cost of 1.00 quintal				213.22
	Cost of 1.00 kg				2.13
	Say				2.15
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
15.23.1	For thickness of tiles 10 mm to 25 mm				
	Detail of cost for 10 sqm				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.30	374.5000	112.35
0017	Beldar	day	0.12	320.8300	38.50
0018	Coolie	day	0.24	320.8300	77.00
9999	Sundries	L.S.	2.73	2.0000	5.46
	TOTAL				233.31 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				2.33
	TOTAL				235.64 X
	Add GST (multiplying factor 0.1405) on "X"				33.11
	TOTAL				268.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.31
	Total				309.06 Z
	Add Cess @ 1% on "Z"				3.09
	Cost of 10.00 sqm				312.15
	Cost of 1.00 sqm				31.22
	Say				31.20

15.23.2 For thickness of tiles above 25 mm and up to 40 mm

Detail of cost for 10 sqm

LABOUR

0024	Mason (brick layer) 2nd class	day	0.59	374.50	220.96
0017	Beldar	day	0.18	320.83	57.75
0018	Coolie	day	0.24	320.83	77.00
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				361.16 W
	Add 1 % Water charges on "W"				3.61
	TOTAL				364.78 X
	Add GST (multiplying factor 0.1405) on "X"				51.25
	TOTAL				416.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.40
	Total				478.43 Z
	Add Cess @ 1% on "Z"				4.78
	Cost of 10.00 sqm				483.21
	Cost of 1.00 sqm				48.32
	Say				48.30

15.24 Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead :

Detail of cost for 1 cum

LABOUR

0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				406.50 W
	Add 1 % Water charges on "W"				4.06
	TOTAL				410.56 X
	Add GST (multiplying factor 0.1405) on "X"				57.68
	TOTAL				468.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.24
	Total				538.48 Z
	Add Cess @ 1% on "Z"				5.38
	Cost of 1.00 cum				543.87
	Say				543.85
15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	1.77	320.83	567.87
0018	Coolie	day	0.75	320.83	240.62
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				824.61 W
	Add 1 % Water charges on "W"				8.25
	TOTAL				832.86 X
	Add GST (multiplying factor 0.1405) on "X"				117.02
	TOTAL				949.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.48
	Total				1092.36 Z
	Add Cess @ 1% on "Z"				10.92
	Cost of 10.00 sqm				1103.28
	Cost of 1.00 sqm				110.33
	Say				110.35
15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.54	374.50	202.23
0017	Beldar	day	0.16	320.83	51.33
0018	Coolie	day	0.24	320.83	77.00
9999	Sundries	L.S.	2.47	2.00	4.94
	TOTAL				335.50 W
	Add 1 % Water charges on "W"				3.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				338.86 X
	Add GST (multiplying factor 0.1405) on "X"				47.61
	TOTAL				386.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.97
	Total				444.44 Z
	Add Cess @ 1% on "Z"				4.44
	Cost of 10.00 sqm				448.88
	Cost of 1.00 sqm				44.89
	Say				44.90
15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.				
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.62	320.83	198.91
9999	Sundries	L.S.	1.04	2.00	2.08
	TOTAL				281.20 W
	Add 1 % Water charges on "W"				2.81
	TOTAL				284.01 X
	Add GST (multiplying factor 0.1405) on "X"				39.90
	TOTAL				323.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.59
	Total				372.51 Z
	Add Cess @ 1% on "Z"				3.73
	Cost of 1.00 cum				376.23
	Say				376.25
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
15.28.1	G.S. Sheet				
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				521.60 W
	Add 1 % Water charges on "W"				5.22
	TOTAL				526.82 X
	Add GST (multiplying factor 0.1405) on "X"				74.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				600.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				90.13
	Total				690.96 Z
	Add Cess @ 1% on "Z"				6.91
	Cost of 10.00 sqm				697.87
	Cost of 1.00 sqm				69.79
	Say				69.80
15.28.2 Asbestos sheet					
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				245.98 W
	Add 1 % Water charges on "W"				2.46
	TOTAL				248.43 X
	Add GST (multiplying factor 0.1405) on "X"				34.91
	TOTAL				283.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.50
	Total				325.84 Z
	Add Cess @ 1% on "Z"				3.26
	Cost of 10.00 sqm				329.10
	Cost of 1.00 sqm				32.91
	Say				32.90
15.29 Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately), including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.					
	Detail of cost for 1 cum				
	LABOUR				
0017	Beldar	day	1.77	320.83	567.87
0018	Coolie	day	0.75	320.83	240.62
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				824.61 W
	Add 1 % Water charges on "W"				8.25
	TOTAL				832.86 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				117.02
	TOTAL				949.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.48
	Total				1092.36 Z
	Add Cess @ 1% on "Z"				10.92
	Cost of 1.00 cum				1103.28
	Say				1103.30
15.30	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	1.19	320.83	381.79
0018	Coolie	day	1.21	320.83	388.20
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				786.11 W
	Add 1 % Water charges on "W"				7.86
	TOTAL				793.97 X
	Add GST (multiplying factor 0.1405) on "X"				111.55
	TOTAL				905.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				135.83
	Total				1041.36 Z
	Add Cess @ 1% on "Z"				10.41
	Cost of 10.00 sqm				1051.77
	Cost of 1.00 sqm				105.18
	Say				105.20
15.31	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	1.73	320.83	555.04
0018	Coolie	day	0.25	320.83	80.21
9999	Sundries	L.S.	8.06	2.00	16.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				651.36 W
	Add 1 % Water charges on "W"				6.51
	TOTAL				657.88 X
	Add GST (multiplying factor 0.1405) on "X"				92.43
	TOTAL				750.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.55
	Total				862.86 Z
	Add Cess @ 1% on "Z"				8.63
	Cost of 10.00 sqm				871.48
	Cost of 1.00 sqm				87.15
	Say				87.15
15.32	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	0.54	320.83	173.25
9999	Sundries	L.S.	3.64	2.00	7.28
	TOTAL				180.53 W
	Add 1 % Water charges on "W"				1.81
	TOTAL				182.33 X
	Add GST (multiplying factor 0.1405) on "X"				25.62
	TOTAL				207.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.19
	Total				239.14 Z
	Add Cess @ 1% on "Z"				2.39
	Cost of 10.00 sqm				241.54
	Cost of 1.00 sqm				24.15
	Say				24.15
15.33	Dismantling wooden ballies in posts and struts including stacking within 50 metres lead.				
	Detail of cost for 50 metre				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries	L.S.	0.52	2.00	1.04
	TOTAL				321.87 W
	Add 1 % Water charges on "W"				3.22
	TOTAL				325.09 X
	Add GST (multiplying factor 0.1405) on "X"				45.67
	TOTAL				370.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.61
	Total				426.38 Z
	Add Cess @ 1% on "Z"				4.26
	Cost of 50.00 metre				430.64
	Cost of 1.00 metre				8.61
	Say				8.60

15.34 Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:

15.34.1 T' or 'L' iron or pipe

Detail of cost for each

LABOUR

0017	Beldar	day	0.107	320.83	34.33
0018	Coolie	day	0.067	320.83	21.50
9999	Excavation, transporting and stacking the posts to the required place within 50 metre s lead, refilling the pit and dressing the same	L.S.	0.26	2.00	0.52
9999	Extra for lifting of R.C.C. posts being heavier than L iron and cleaning the posts of stacking concrete	L.S.	13.39	2.00	26.78
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				85.98 W
	Add 1 % Water charges on "W"				0.86
	TOTAL				86.84 X
	Add GST (multiplying factor 0.1405) on "X"				12.20
	TOTAL				99.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.86
	Total				113.90 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				1.14
	Cost of each				115.04
	Say				115.05
15.34.2	R.C.C.				
	Detail of cost for each				
	LABOUR				
0017	Beldar	day	0.097	320.83	31.12
0018	Coolie	day	0.06	320.83	19.25
9999	Sundries	L.S.	0.26	2.00	0.52
9999	Excavation, transporting and stacking the posts to the required place within 50 metre s lead, refilling the pit and dressing the same	L.S.	13.39	2.00	26.78
9999	Extra for lifting of R.C.C. posts being heavier than L iron and cleaning the posts of stacking concrete	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				99.25 W
	Add 1 % Water charges on "W"				0.99
	TOTAL				100.24 X
	Add GST (multiplying factor 0.1405) on "X"				14.08
	TOTAL				114.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				17.15
	Total				131.48 Z
	Add Cess @ 1% on "Z"				1.31
	Cost of each				132.79
	Say				132.80
15.35	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.				
	Detail of cost for 1 ballie (post)				
9999	Cutting	L.S.	2.73	2	5.46
9999	Transporting and stacking	L.S.	1.43	2	2.86
	TOTAL				8.32 W
	Add 1 % Water charges on "W"				0.08
	TOTAL				8.40 X
	Add GST (multiplying factor 0.1405) on "X"				1.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				9.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				1.44
	Total				11.02 Z
	Add Cess @ 1% on "Z"				0.11
	Cost of each				11.13
	Say				11.15
15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.				
	Detail of cost for 1 quintal				
	LABOUR				
0017	Beldar	day	3.50	320.83	1122.91
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				1133.57 W
	Add 1 % Water charges on "W"				11.34
	TOTAL				1144.90 X
	Add GST (multiplying factor 0.1405) on "X"				160.86
	TOTAL				1305.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				195.86
	Total				1501.62 Z
	Add Cess @ 1% on "Z"				15.02
	Cost of 1.00 quintal				1516.64
	Cost of 1.00 kg				15.17
	Say				15.15
15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.				
	Detail of cost for 1 quintal				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.25	320.83	80.21
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				203.33 W
	Add 1 % Water charges on "W"				2.03
	TOTAL				205.36 X
	Add GST (multiplying factor 0.1405) on "X"				28.85
	TOTAL				234.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				269.34 Z
	Add Cess @ 1% on "Z"				2.69
	Cost of 10.00 sqm				272.04
	Cost of 1.00 sqm				27.20
	Say				27.20
15.38	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.40	320.83	128.33
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	4.16	2.00	8.32
	TOTAL				238.27 W
	Add 1 % Water charges on "W"				2.38
	TOTAL				240.65 X
	Add GST (multiplying factor 0.1405) on "X"				33.81
	TOTAL				274.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.17
	Total				315.63 Z
	Add Cess @ 1% on "Z"				3.16
	Cost of 10.00 sqm				318.79
	Cost of 1.00 sqm				31.88
	Say				31.90
15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :				
15.39.1	Up to 10 mm thick				
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.15	374.50	56.18
0017	Beldar	day	0.20	320.83	64.17
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				195.17 W
	Add 1 % Water charges on "W"				1.95
	TOTAL				197.12 X
	Add GST (multiplying factor 0.1405) on "X"				27.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				224.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.72
	Total				258.54 Z
	Add Cess @ 1% on "Z"				2.59
	Cost of 10.00 sqm				261.12
	Cost of 1.00 sqm				26.11
	Say				26.10
15.39.2 Thickness above 10 mm up to 25 mm					
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.25	320.83	80.21
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				248.84 W
	Add 1 % Water charges on "W"				2.49
	TOTAL				251.32 X
	Add GST (multiplying factor 0.1405) on "X"				35.31
	TOTAL				286.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.00
	Total				329.63 Z
	Add Cess @ 1% on "Z"				3.30
	Cost of 10.00 sqm				332.93
	Cost of 1.00 sqm				33.29
	Say				33.30
15.39.3 Thickness above 25 mm up to 40 mm					
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.30	320.83	96.25
0018	Coolie	day	0.30	320.83	96.25
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				294.18 W
	Add 1 % Water charges on "W"				2.94
	TOTAL				297.12 X
	Add GST (multiplying factor 0.1405) on "X"				41.75
	TOTAL				338.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				389.69 Z
	Add Cess @ 1% on "Z"				3.90
	Cost of 10.00 sqm				393.59
	Cost of 1.00 sqm				39.36
	Say				39.35
15.40	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :				
15.40.1	Thickness up to 40 mm				
	Detail of cost for 10 sqm				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	2.00	320.83	641.66
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.39	2.00	26.78
	TOTAL				903.76 W
	Add 1 % Water charges on "W"				9.04
	TOTAL				912.79 X
	Add GST (multiplying factor 0.1405) on "X"				128.25
	TOTAL				1041.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				156.16
	Total				1197.20 Z
	Add Cess @ 1% on "Z"				11.97
	Cost of 10.00 sqm				1209.17
	Cost of 1.00 sqm				120.92
	Say				120.90
15.40.2	Thickness above 40 mm up to 75 mm				
	Detail of cost for 10 sqm				
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.30	374.50	112.35
0017	Beldar	day	3.00	320.83	962.49
0018	Coolie	day	0.75	320.83	240.62
9999	Sundries	L.S.	18.85	2.00	37.70
	TOTAL				1353.16 W
	Add 1 % Water charges on "W"				13.53
	TOTAL				1366.69 X
	Add GST (multiplying factor 0.1405) on "X"				192.02
	TOTAL				1558.71 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				233.81
	Total				1792.52 Z
	Add Cess @ 1% on "Z"				17.93
	Cost of 10.00 sqm				1810.45
	Cost of 1.00 sqm				181.04
	Say				181.05
15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.				
	Detail of cost for 10 sqm.				
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				181.81 W
	Add 1 % Water charges on "W"				1.82
	TOTAL				183.63 X
	Add GST (multiplying factor 0.1405) on "X"				25.80
	TOTAL				209.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.41
	Total				240.84 Z
	Add Cess @ 1% on "Z"				2.41
	Cost of 10.00 sqm				243.25
	Cost of 1.00 sqm				24.32
	Say				24.30
15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :				
15.42.1	75 to 80 mm dia pipe				
	Detail of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.36	320.83	115.50
9999	Sundries	L.S.	0.91	2.00	1.82
	TOTAL				232.82 W
	Add 1 % Water charges on "W"				2.33
	TOTAL				235.15 X
	Add GST (multiplying factor 0.1405) on "X"				33.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				268.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.23
	Total				308.41 Z
	Add Cess @ 1% on "Z"				3.08
	Cost of 10.00 metre				311.50
	Cost of 1.00 metre				31.15
	Say				31.15

15.42.2 100 mm dia pipe

Detail of cost for 10 metre

LABOUR

0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.38	320.83	121.92
9999	Sundries	L.S.	1.56	2.00	3.12
	TOTAL				240.53 W
	Add 1 % Water charges on "W"				2.41
	TOTAL				242.94 X
	Add GST (multiplying factor 0.1405) on "X"				34.13
	TOTAL				277.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.56
	Total				318.63 Z
	Add Cess @ 1% on "Z"				3.19
	Cost of 10.00 metre				321.82
	Cost of 1.00 metre				32.18
	Say				32.20

15.42.3 150 mm dia pipe

Detail of cost for 10 metre

LABOUR

0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.40	320.83	128.33
9999	Sundries	L.S.	2.08	2.00	4.16
	TOTAL				247.99 W
	Add 1 % Water charges on "W"				2.48
	TOTAL				250.47 X
	Add GST (multiplying factor 0.1405) on "X"				35.19
	TOTAL				285.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.85
	Total				328.51 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				3.29
	Cost of 10.00 metre				331.80
	Cost of 1.00 metre				33.18
	Say				33.20
15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
15.43.1	Water bound macadam road				
	Detail of cost for 36 sqm				
	Consider a road 6 metres wide and 6 metres length wise 25 cm average depth = 9.00 cubic metre				
	LABOUR				
	For cutting road taking out soiling and metalling including sorting and screening				
0017	Beldar	day	4.80	320.83	1539.98
0018	Coolie	day	2.40	320.83	769.99
9999	Labour for stacking of serviceable material and disposal of unserviceable material within 50 metres lead	L.S.	89.7	2.00	179.40
	TOTAL				2489.38 W
	Add 1 % Water charges on "W"				24.89
	TOTAL				2514.27 X
	Add GST (multiplying factor 0.1405) on "X"				353.25
	TOTAL				2867.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				430.13
	Total				3297.65 Z
	Add Cess @ 1% on "Z"				32.98
	Cost of 36.00 sqm				3330.63
	Cost of 1.00 sqm				92.52
	Say				92.50
15.43.2	bituminous road				
	Detail of cost for 36 sqm				
	Consider a road 6 metres wide and 6 metres length wise 30 cm average depth = 10.80 cubic metre				
	LABOUR				
	For cutting road taking out soiling and metalling including sorting and screening				
0017	Beldar	day	9.60	320.83	3079.97
0018	Coolie	day	4.80	320.83	1539.98
9999	Labour for stacking of serviceable material and disposal of unserviceable material	L.S.	107.64	2.00	215.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	within 50 metres lead				
	TOTAL				4835.23 W
	Add 1 % Water charges on "W"				48.35
	TOTAL				4883.58 X
	Add GST (multiplying factor 0.1405) on "X"				686.14
	TOTAL				5569.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				835.46
	Total				6405.19 Z
	Add Cess @ 1% on "Z"				64.05
	Cost of 36.00 sqm				6469.24
	Cost of 1.00 sqm				179.70
	Say				179.70
15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
15.44.1	15 mm to 40 mm nominal bore				
	Detail of cost for 10 metre				
	LABOUR				
	Trenching and refilling etc				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
9999	Dismantling G.I. pipe and stacking etc	L.S.	35.88	2.00	71.76
	TOTAL				495.26 W
	Add 1 % Water charges on "W"				4.95
	TOTAL				500.21 X
	Add GST (multiplying factor 0.1405) on "X"				70.28
	TOTAL				570.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.57
	Total				656.06 Z
	Add Cess @ 1% on "Z"				6.56
	Cost of 10.00 metre				662.62
	Cost of 1.00 metre				66.26
	Say				66.25
15.44.2	Above 40 mm nominal bore				
	Detail of cost for 10 metre				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Trenching and refilling etc				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
9999	Dismantling G.I. pipe and stacking etc	L.S.	71.76	2.00	143.52
	TOTAL				567.02 W
	Add 1 % Water charges on "W"				5.67
	TOTAL				572.69 X
	Add GST (multiplying factor 0.1405) on "X"				80.46
	TOTAL				653.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				97.97
	Total				751.12 Z
	Add Cess @ 1% on "Z"				7.51
	Cost of 10.00 metre				758.63
	Cost of 1.00 metre				75.86
	Say				75.85

15.45 Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:

15.45.1 Up to 150 mm diameter

Detail of cost for 40.26 metre or 11 nos
joints Earth work in excavation for
dismantling
pipes including refilling of excavated earth
 $1 \times 40.26 \times 0.55 \times 0.75 \text{ m} = 16.61 \text{ cum}$
Deduct for pipes of average 100 mm dia
 $= 1 \times 40.26 \times (22/7) / 4 \times (0.118) \times (0.118)$
 $= 0.44 \text{ cum}$
Total = 16.17 cum

LABOUR

2.8.1	Rate as per Item No.2.8.1 of	cum	16.17	171.40	2771.61 A
	SH: EARTH WORK				
2.25	Rate as per Item No.2.25 of	cum	16.17	124.50	2013.21 A
	SH: EARTH WORK				
761	Fuel wood	quintal	0.46	500.00	230.00
771	Kerosene oil	litre	0.38	50.00	19.00
0020	Assistant Fitter or 2nd class Fitter	day	0.63	374.50	235.94
0017	Beldar	day	4.50	320.83	1443.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage	L.S.	53.82	2.00	107.64
	TOTAL				6821.13 W
	Add 1 % Water charges on "W-A"	2036.31			20.36
	TOTAL				6841.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	2056.67			288.96
	TOTAL				7130.45 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2345.64			351.85
	Total				7482.30 Z
	Add Cess @ 1% on "Z-A"	2697.48			26.97
	Cost of 40.26 metre				7509.27
	Cost of 1.00 metre				186.52
	Say				186.50

15.45.2 Above 150 mm dia up to 300 mm dia

Detail of cost for 40.26 metre or 11 nos joints Earth work in excavation for dismantling pipes including refilling of excavated earth
 $1 \times 40.26 \times 0.65 \times 0.75 \text{ m} = 19.63 \text{ cum}$
Deduct for pipes of average 250 mm dia
 $= 1 \times 40.26 \times (22/7) / 4 \times (0.274) \times (0.274)$
 $= 2.37 \text{ cum}$
Total = 17.26 cum
LABOUR

2.8.1	Rate as per Item No.2.8.1 of SH: EARTH WORK	cum	17.26	171.40	2958.44 A
2.25	Rate as per Item No.2.25 of SH: EARTH WORK	cum	17.26	124.50	2148.92 A
761	Fuel wood	quintal	1.03	500.00	515.00
771	Kerosene oil	litre	1.14	50.00	57.00
0020	Assistant Fitter or 2nd class Fitter	day	1.30	374.50	486.85
0017	Beldar	day	7.50	320.83	2406.23
9977	Carriage	L.S.	80.73	2.00	161.46
	TOTAL				8733.89 W
	Add 1 % Water charges on "W-A"	3626.54			36.27
	TOTAL				8770.15 X
	Add GST (multiplying factor 0.1405) on "X-A"	3662.80			514.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				9284.78 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4177.42			626.61
	Total				9911.39 Z
	Add Cess @ 1% on "Z-A"	4804.04			48.04
	Cost of 40.26 metre				9959.43
	Cost of 1.00 metre				247.38
	Say				247.40

15.45.3 Above 300 mm diameter

Detail of cost for 40.26 metre or 11 nos joints Earth work in excavation for dismantling pipes including refilling of excavated earth $1 \times 40.26 \times 0.85 \times 0.75 \text{ m} = 25.67 \text{ cum}$
Deduct for pipes of average 450 mm dia $= 1 \times 40.26 \times (22/7) / 4 \times (0.48) \times (0.48) = 7.29 \text{ cum}$
Total = 18.38 cum
LABOUR

2.8.1	Rate as per Item No.2.8.1 of SH: EARTH WORK	cum	18.38	171.40	3150.41 A
2.25	Rate as per Item No.2.25 of SH: EARTH WORK	cum	18.38	124.50	2288.36 A
761	Fuel wood	quintal	1.40	500.00	700.00
771	Kerosene oil	litre	2.27	50.00	113.50
0020	Assistant Fitter or 2nd class Fitter	day	2.25	374.50	842.63
0017	Beldar	day	11.50	320.83	3689.55
9988	Carriage and sundries	L.S.	134.55	2.00	269.10
	TOTAL				11053.54 W
	Add 1 % Water charges on "W-A"	5614.77			56.15
	TOTAL				11109.69 X
	Add GST (multiplying factor 0.1405) on "X-A"	5670.92			796.76
	TOTAL				11906.45 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6467.68			970.15
	Total				12876.60 Z
	Add Cess @ 1% on "Z-A"	7437.83			74.38
	Cost of 40.26 metre				12950.98
	Cost of 1.00 metre				321.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Say

321.70

15.46 Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metres lead as per direction of Engineer-in-charge :

15.46.1 Up to 600 mm diameter

Detail of cost for 40.26 metre or 11 nos
joints Earth work in excavation for
dismantling
pipes including refilling of excavated earth
 $1 \times 40.26 \times 1.30 \times 1.65 \text{ m} = 86.36 \text{ cum}$
Deduct for pipes of average 450 mm dia
 $= 1 \times 40.26 \times (22/7) / 4 \times (0.48) \times (0.48) = 7.29 \text{ cum}$
Total = 79.07 cum
LABOUR

0017	Beldar	day	5.32	320.83	1706.82
0018	Coolie	day	5.46	320.83	1751.73
0011	Bhisti	day	0.31	320.83	99.46
761	Fuel wood	quintal	1.40	500.00	700.00
771	Kerosene oil	litre	2.27	50.00	113.50
0020	Assistant Fitter or 2nd class Fitter	day	2.25	374.50	842.63
0017	Beldar	day	11.50	320.83	3689.55
9988	Carriage and sundries	L.S.	134.55	2.00	269.10
TOTAL					9172.77 W
Add 1 % Water charges on "W"					91.73
TOTAL					9264.50 X
Add GST (multiplying factor 0.1405) on "X"					1301.66
TOTAL					10566.17 Y
Add 15 % Contractor's profit and overheads on "Y"					1584.92
Total					12151.09 Z
Add Cess @ 1% on "Z"					121.51
Cost of 40.26 metre					12272.60
Cost of 1.00 metre					304.83
Say					304.85

15.46.2 Above 600 mm diameter

Detail of cost for 40.26 metre or 11 nos
joints Earth work in excavation for
dismantling

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	pipes including refilling of excavated earth $1 \times 40.26 \times 1.30 \times 1.65 \text{ m} = 86.36 \text{ cum}$ Deduct for pipes of average 450 mm dia $= 1 \times 40.26 \times (22/7) / 4 \times (1.00) \times (1.00) = 31.63 \text{ cum}$ Total = 54.73 cum LABOUR				
0017	Beldar	day	15.82	320.83	5075.53
0018	Coolie	day	16.25	320.83	5213.49
0011	Bhisti	day	0.93	320.83	298.37
761	Fuel wood	quintal	3.08	500.00	1540.00
771	Kerosene oil	litre	5.00	50.00	250.00
0020	Assistant Fitter or 2nd class Fitter	day	10.00	374.50	3745.00
0017	Beldar	day	20.00	320.83	6416.60
9988	Carriage and sundries	L.S.	179.40	2.00	358.80
	TOTAL				22897.79 W
	Add 1 % Water charges on "W"				228.98
	TOTAL				23126.77 X
	Add GST (multiplying factor 0.1405) on "X"				3249.31
	TOTAL				26376.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				3956.41
	Total				30332.49 Z
	Add Cess @ 1% on "Z"				303.32
	Cost of 40.26 metre				30635.82
	Cost of 1.00 metre				760.95
	Say				760.95

15.47 Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead as per direction of Engineer-in-charge :

15.47.1 Up to 150 mm diameter

Detail of cost for 10 metre or 11 nos joints
Earth work in excavation for dismantling
pipes including refilling of excavated earth
 $10.00 \times 0.55 \times 0.75 \text{ m} = 4.125 \text{ cum}$
Deduct for pipes of average 100 mm dia
 $= 1 \times 10 \times (22/7) / 4 \times (0.118) \times (0.118) = 0.109 \text{ cum}$
Total = 4.016 cum
LABOUR

0017	Beldar	day	1.16	320.83	372.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	1.19	320.83	381.79
0011	Bhisti	day	0.07	320.83	22.46
0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.38	320.83	121.92
9988	Carriage and sundries	L.S.	1.56	2.00	3.12
	TOTAL				1016.94 W
	Add 1 % Water charges on "W"				10.17
	TOTAL				1027.11 X
	Add GST (multiplying factor 0.1405) on "X"				144.31
	TOTAL				1171.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.71
	Total				1347.13 Z
	Add Cess @ 1% on "Z"				13.47
	Cost of 10.00 metre				1360.61
	Cost of 1.00 metre				136.06
	Say				136.05

15.47.2 Above 150 mm diameter

Detail of cost for 10 metre or 11 nos joints
Earth work in excavation for dismantling
pipes including refilling of excavated earth
10.00x0.65x0.75 m =4.88cum
Deduct for pipes of average 250 mm dia
=1x10x(22/7)/4x(0.274)x(0.274) =0.590cum

Total=4.29cum

LABOUR

0017	Beldar	day	1.24	320.83	397.83
0018	Coolie	day	1.28	320.83	410.66
0011	Bhisti	day	0.07	320.83	22.46
0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.88	320.83	282.33
9988	Carriage and sundries	L.S.	3.77	2.00	7.54
	TOTAL				1236.32 W
	Add 1 % Water charges on "W"				12.36
	TOTAL				1248.68 X
	Add GST (multiplying factor 0.1405) on "X"				175.44
	TOTAL				1424.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				213.62
	Total				1637.74 Z
	Add Cess @ 1% on "Z"				16.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 metre				1654.12
	Cost of 1.00 metre				165.41
	Say				165.40
15.48	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.				
	Details of cost for 1 man hole				
	Demolition of R.C.C. slab				
	1.3x1.2x0.15 m =0.234cum				
	Less cover 0.61x0.455x0.15 m =0.042cum				
	=0.192cum				
	LABOUR				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.14	320.83	44.92
9999	Removal of C.I. Cover with frame including stacking	L.S.	1.30	2.00	2.60
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				222.23 W
	Add 1 % Water charges on "W"				2.22
	TOTAL				224.45 X
	Add GST (multiplying factor 0.1405) on "X"				31.54
	TOTAL				255.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.40
	Total				294.39 Z
	Add Cess @ 1% on "Z"				2.94
	Cost of each				297.33
	Say				297.35

15.49 Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-incharge.

Detail of cost for 1 man hole

Demolition of R.C.C. slab

1.1x0.9x0.15 m =0.148cum

Less cover 0.61x0.455x0.15 m =0.042cum

=0.106cum Say 0.11cum

LABOUR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.29	320.83	93.04
0018	Coolie	day	0.08	320.83	25.67
9999	Removal of C.I. Cover with frame including stacking	L.S.	0.65	2.00	1.30
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				130.67 W
	Add 1 % Water charges on "W"				1.31
	TOTAL				131.97 X
	Add GST (multiplying factor 0.1405) on "X"				18.54
	TOTAL				150.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.58
	Total				173.09 Z
	Add Cess @ 1% on "Z"				1.73
	Cost of each				174.82
	Say				174.80

15.50 Dismantling of R.C.C. spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead.

Detail of cost for each

Dismantling cement concrete

1:4:8 0.90x0.90x1.35m =1.094cum

Less shaft 1/4x22/7x(0.450)x(0.450)x

1.10 m =0.175cum

=0.919cum Say 0.92cum

Dismantling cement concrete

1:2:4 0.90x0.90x0.15m =0.122cum

Less shaft 1/4x22/7x0.15x0.45 m

=0.024cum

=0.098cum Say 0.10cum

LABOUR

0017	Beldar	day	0.81	320.83	259.87
0018	Coolie	day	0.51	320.83	163.62
9999	Sundries	L.S.	1.82	2.00	3.64
0017	Beldar	day	0.16	320.83	51.33
0018	Coolie	day	0.07	320.83	22.46
9999	Sundries	L.S.	0.52	2.00	1.04
0030	Mistry	day	0.25	476.00	119.00
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0010	Bandhani	day	1.00	320.83	320.83
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries for scaffolding etc	L.S.	53.82	2.00	107.64
	TOTAL				1472.33 W
	Add 1 % Water charges on "W"				14.72
	TOTAL				1487.05 X
	Add GST (multiplying factor 0.1405) on "X"				208.93
	TOTAL				1695.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				254.40
	Total				1950.38 Z
	Add Cess @ 1% on "Z"				19.50
	Cost of each				1969.88
	Say				1969.90

15.51 Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.

Detail of cost for one chamber

Dismantling cement concrete

a) 1:5:10 1.05x1.00x0.15m =0.16cum

Dismantling brick work in cement mortar

2.70x0.20x0.45m =0.24cum Dismantling cement concrete

b) 1:2:4 2.70x0.20x0.15m =0.08cum

LABOUR

0017	Beldar	day	0.14	320.83	44.92
0018	Coolie	day	0.09	320.83	28.87
9999	Sundries	L.S.	0.26	2.00	0.52
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	0.22	320.83	70.58
9999	Sundries	L.S.	0.52	2.00	1.04
0017	Beldar	day	0.13	320.83	41.71
0018	Coolie	day	0.06	320.83	19.25
9999	Sundries for scaffolding etc	L.S.	0.39	2.00	0.78
9999	Dismantling C.I. Grating	L.S.	7.15	2.00	14.30
	TOTAL				302.18 W
	Add 1 % Water charges on "W"				3.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				305.20 X
	Add GST (multiplying factor 0.1405) on "X"				42.88
	TOTAL				348.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.21
	Total				400.29 Z
	Add Cess @ 1% on "Z"				4.00
	Cost of each				404.30
	Say				404.30
15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.				
	Detail of cost for each				
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	17.94	2.00	35.88
	TOTAL				315.30 W
	Add 1 % Water charges on "W"				3.15
	TOTAL				318.45 X
	Add GST (multiplying factor 0.1405) on "X"				44.74
	TOTAL				363.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.48
	Total				417.67 Z
	Add Cess @ 1% on "Z"				4.18
	Cost of each				421.85
	Say				421.85
15.53	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres				
15.53.1	Up to 150 mm diameter				
	Detail of cost for dismantling 10 sluice valves (ace.) 100mm				
	LABOUR				
0019	Fitter (grade 1)	day	0.60	476.00	285.60
0020	Assistant Fitter or 2nd class Fitter	day	0.40	374.50	149.80
0017	Beldar	day	1.60	320.83	513.33
9999	Sundries for removing the R.C.C. cover etc for dismantling sluice valve	L.S.	89.7	2.00	179.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1128.13 W
	Add 1 % Water charges on "W"				11.28
	TOTAL				1139.41 X
	Add GST (multiplying factor 0.1405) on "X"				160.09
	TOTAL				1299.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				194.92
	Total				1494.42 Z
	Add Cess @ 1% on "Z"				14.94
	Cost of 10 Nos				1509.36
	Cost of each				150.94
	Say				150.95

15.53.2 Above 150 mm diameter

Detail of cost for dismantling 10 sluice

valves (ace.) 100mm

LABOUR

0019	Fitter (grade 1)	day	2.40	476.00	1142.40
0020	Assistant Fitter or 2nd class Fitter	day	1.54	374.50	576.73
0017	Beldar	day	6.40	320.83	2053.31
9999	Sundries for removing the R.C.C. cover etc for dismantling sluice valve	L.S.	89.70	2.00	179.40
	TOTAL				3951.84 W
	Add 1 % Water charges on "W"				39.52
	TOTAL				3991.36 X
	Add GST (multiplying factor 0.1405) on "X"				560.79
	TOTAL				4552.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				682.82
	Total				5234.97 Z
	Add Cess @ 1% on "Z"				52.35
	Cost of 10 Nos				5287.32
	Cost of each				528.73
	Say				528.75

15.54 Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.

Detail of cost for 10 Nos

LABOUR

0019	Fitter (grade 1)	day	1.50	476.00	714.00
0020	Assistant Fitter or 2nd class Fitter	day	1.00	374.50	374.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				2371.82 W
	Add 1 % Water charges on "W"				23.72
	TOTAL				2395.54 X
	Add GST (multiplying factor 0.1405) on "X"				336.57
	TOTAL				2732.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				409.82
	Total				3141.93 Z
	Add Cess @ 1% on "Z"				31.42
	Cost of 10 Nos				3173.35
	Cost of each				317.33
	Say				317.35

15.55 Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead :

15.55.1 120 x 120 cm (outside to outside)

Detail of cost for one platform

Dismantling cement concrete 1:5:10

4.00x0.35x0.12m =0.168cum

0.80x0.80x0.075m =0.048cum

=0.216cum Say 0.22cum

Dismantling brick work in cement mortar

4.00x0.20x0.30m =0.24cum

4.00x0.10x0.20m =0.088cum

=0.328cum Say 0.33cum

Dismantling 40 mm C.C. flooring 1:2:4

1.00x1.00x0.04m =0.04cum

LABOUR

0017	Beldar	day	0.19	320.83	60.96
0018	Coolie	day	0.12	320.83	38.50
9999	Sundries	L.S.	0.39	2.00	0.78
0017	Beldar	day	0.35	320.83	112.29
0018	Coolie	day	0.30	320.83	96.25
9999	Sundries	L.S.	0.91	2.00	1.82
0017	Beldar	day	0.06	320.83	19.25
0018	Coolie	day	0.03	320.83	9.62
9999	Sundries for scaffolding etc	L.S.	0.13	2.00	0.26
	TOTAL				339.73 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.40
	TOTAL				343.13 X
	Add GST (multiplying factor 0.1405) on "X"				48.21
	TOTAL				391.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.70
	Total				450.04 Z
	Add Cess @ 1% on "Z"				4.50
	Cost of each				454.54
	Say				454.55

15.55.2 210 x 120 cm (outside to outside)

Detail of cost for one platform

Dismantling cement concrete 1:5:10

5.80x0.35x0.12m =0.243cum

0.80x1.70x0.075m =0.102cum

=0.345cum Say 0.35cum

Dismantling brick work in cement mortar

5.80x0.20x0.30m =0.348cum

6.20x0.10x0.20m =0.124cum

=0.472cum Say 0.47cum

Dismantling 40 mm C.C. flooring 1:2:4

1.90x1.00x0.04m =0.08cum

LABOUR

0017	Beldar	day	0.31	320.83	99.46
0018	Coolie	day	0.19	320.83	60.96
9999	Sundries	L.S.	0.65	2.00	1.30
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.42	320.83	134.75
9999	Sundries	L.S.	1.30	2.00	2.60
0017	Beldar	day	0.13	320.83	41.71
0018	Coolie	day	0.06	320.83	19.25
9999	Sundries for scaffolding etc	L.S.	0.39	2.00	0.78
	TOTAL				521.22 W
	Add 1 % Water charges on "W"				5.21
	TOTAL				526.43 X
	Add GST (multiplying factor 0.1405) on "X"				73.96
	TOTAL				600.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				90.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				690.45 Z
	Add Cess @ 1% on "Z"				6.90
	Cost of each				697.35
	Say				697.35
15.55.3 320 x 120 cm (outside to outside)					
	Detail of cost for one platform				
	Dismantling cement concrete 1:5:10				
	8.00x0.35x0.12m =0.336cum				
	2.80x0.80x0.075m =0.168cum				
	=0.504cum Say 0.50cum				
	Dismantling brick work in cement mortar				
	8.00x0.20x0.30m =0.48cum				
	8.40x0.10x0.20m =0.168cum				
	=0.648cum Say 0.65cum				
	Dismantling 40 mm C.C. flooring 1:2:4				
	3.00x1.00x0.04m =0.12cum				
	LABOUR				
0017	Beldar	day	0.44	320.83	141.17
0018	Coolie	day	0.28	320.83	89.83
9999	Sundries	L.S.	0.91	2.00	1.82
0017	Beldar	day	0.69	320.83	221.37
0018	Coolie	day	0.59	320.83	189.29
9999	Sundries	L.S.	1.56	2.00	3.12
0017	Beldar	day	0.19	320.83	60.96
0018	Coolie	day	0.09	320.83	28.87
9999	Sundries for scaffolding etc	L.S.	0.52	2.00	1.04
	TOTAL				737.47 W
	Add 1 % Water charges on "W"				7.37
	TOTAL				744.85 X
	Add GST (multiplying factor 0.1405) on "X"				104.65
	TOTAL				849.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				127.42
	Total				976.92 Z
	Add Cess @ 1% on "Z"				9.77
	Cost of each				986.69
	Say				986.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	0.36	320.83	115.50
0018	Coolie	day	0.08	320.83	25.67
0011	Bhisti	day	0.07	320.83	22.46
9999	Sundries for scaffolding etc	L.S.	1.43	2.00	2.86
	TOTAL				166.48 W
	Add 1 % Water charges on "W"				1.66
	TOTAL				168.15 X
	Add GST (multiplying factor 0.1405) on "X"				23.62
	TOTAL				191.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.77
	Total				220.54 Z
	Add Cess @ 1% on "Z"				2.21
	Cost of 10.00 sqm				222.74
	Cost of 1.00 sqm				22.27
	Say				22.25
15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.				
	Detail of cost for 10 sqm				
	LABOUR				
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	5.38	2.00	10.76
	TOTAL				181.91 W
	Add 1 % Water charges on "W"				1.82
	TOTAL				183.73 X
	Add GST (multiplying factor 0.1405) on "X"				25.81
	TOTAL				209.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.43
	Total				240.97 Z
	Add Cess @ 1% on "Z"				2.41
	Cost of 10.00 sqm				243.38
	Cost of 1.00 sqm				24.34
	Say				24.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.				
	Details of cost for 1 cum				
	LABOUR				
0028	Mate	day	0.03	320.83	9.62
	Labour for operating pneumatic tools				
0037	Skilled Beldar (for floor rubbing etc.)	day	0.50	320.83	160.42
0017	Beldar	day	0.50	320.83	160.42
	Labour for cutting reinforcement bars.				
0013	Blacksmith 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
	MACHINERY				
040	Air compressor 250 cfm with two leads for pneumatic cutters/ hammers.	day	0.125	1600.00	200.00
039	Tractor with trolley .	day	0.05	1350.00	67.50
041	Joint cutting machine with 2-3 blades	day	0.125	800.00	100.00
	TOTAL				1045.62 W
	Add 1 % Water charges on "W"				10.46
	TOTAL				1056.08 X
	Add GST (multiplying factor 0.1405) on "X"				148.38
	TOTAL				1204.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				180.67
	Total				1385.12 Z
	Add Cess @ 1% on "Z"				13.85
	Cost of 1 cum				1398.97
	Say				1398.95
15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.				
	Details of cost for 1 cum				
	LABOUR				
0028	Mate	day	0.01	320.83	3.21
0017	Beldar	day	0.30	320.83	96.25
	MACHINERY				
039	Tractor with trolley .	day	0.0475	1350.00	64.13
038	Tractor with ripper attachment.	day	0.002	1200.00	2.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				165.98 W
	Add 1 % Water charges on "W"				1.66
	TOTAL				167.64 X
	Add GST (multiplying factor 0.1405) on "X"				23.55
	TOTAL				191.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.68
	Total				219.88 Z
	Add Cess @ 1% on "Z"				2.20
	Cost of 1 cum				222.07
	Say				222.05
15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.				
	Details of cost for 1 cum				
2264	Carriage of Rubbish	cum	1.00	106.1301	106.13
	TOTAL				106.13 W
	Add 1 % Water charges on "W"				1.06
	TOTAL				107.19 X
	Add GST (multiplying factor 0.1405) on "X"				15.06
	TOTAL				122.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.34
	Total				140.59 Z
	Add Cess @ 1% on "Z"				1.41
	Cost of 1 cum				142.00
	Say				142.00

SUB HEAD : 16.0

ROAD WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.				
	Details of cost for 100sqm.				
	(A) preparation of subgrade.				
	Earth work in excavation including dressing etc. 100sqm.x22.5cm (average depth) = 22.5cum.				
	LABOUR				
0028	Mate	day	1.80	320.83	577.49
0018	Coolie	day	18.00	320.83	5774.94
0017	Beldar	day	0.270	320.83	86.62
003	Hire charges of Diesel Road Roller - 8 to 10	day	0.054	3000.00	162.00
0016	Chowkidar	day	0.054	320.83	17.32
9999	Sundries	L.S.	6.76	2.00	13.52
	(B) Consolidation of subgrade				
	Roller charges (one roller does 1860 sqm. of consolidation of sub - grade with road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade				
003	Hire charges of Diesel Road Roller - 8 to 10	day	0.054	3000.00	162.00
0016	Chowkidar	day	0.054	320.83	17.32
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				6824.75 W
	Add 1 % Water charges on "W"				68.25
	TOTAL				6893.00 X
	Add GST (multiplying factor 0.1405) on "X"				968.47
	TOTAL				7861.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				1179.22
	Total				9040.68 Z
	Add Cess @ 1% on "Z"				90.41
	Cost for 100 sqm.				9131.09
	Cost per sqm.				91.31
	Say				91.30
16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	(Extra to item No.2.3 in Earth work)				
0011	Bhisti	day	0.17	320.83	54.54
	Roller charges (one roller does 1860sqm. of consolidation per day of 8 hours and uses 18 litres diesel)				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	3000.00	24.00
0016	Chowkidar	day	0.008	320.83	2.57
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				83.97 W
	Add 1 % Water charges on "W"				0.84
	TOTAL				84.81 X
	Add GST (multiplying factor 0.1405) on "X"				11.92
	TOTAL				96.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.51
	Total				111.23 Z
	Add Cess @ 1% on "Z"				1.11
	Cost of 10 cum.				112.34
	Cost per cum.				11.23
	Say				11.25
16.3	Supplying and stacking at site.				
16.3.1	90 mm to 45 mm size stone aggregate				
	Details of cost for 1 cum.				
	MATERIAL				
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	0.10	1350.00	135.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	0.65	1350.00	877.50
291	Stone Aggregate (Single size) : 63 mm nominal size	cum	0.25	1000.00	250.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	1.00	115.36	115.36
	Total				1377.86 W
	Add 1 % Water charges on "W"				13.78
	TOTAL				1391.64 X
	Add GST (multiplying factor 0.1405) on "X"				195.53
	TOTAL				1587.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				238.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1825.24 Z
	Add Cess @ 1% on "Z"				18.25
	Cost for 1 cum				1843.49
	Say				1843.50
16.3.2 63 mm to 45 mm size stone aggregate					
	Details of cost for 1 cum.				
	MATERIAL				
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	0.10	1350.00	135.00
291	Stone Aggregate (Single size) : 63 mm nominal size	cum	0.65	1000.00	650.00
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	0.25	1000.00	250.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	1.00	115.36	115.36
	Total				1150.36 W
	Add 1 % Water charges on "W"				11.50
	TOTAL				1161.86 X
	Add GST (multiplying factor 0.1405) on "X"				163.24
	TOTAL				1325.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				198.77
	Total				1523.87 Z
	Add Cess @ 1% on "Z"				15.24
	Cost for 1 cum				1539.11
	Say				1539.10

16.3.3 53 mm to 22.4 mm size stone aggregate

Details of cost for 1 cum.

MATERIAL

291	Stone Aggregate (Single size) : 63 mm nominal size	cum	0.05	1000.00	50.00
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	0.30	1000.00	300.00
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	1300.00	845.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	1.00	115.36	115.36
	Total				1310.36 W
	Add 1 % Water charges on "W"				13.10
	TOTAL				1323.46 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				185.95
	TOTAL				1509.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				226.41
	Total				1735.82 Z
	Add Cess @ 1% on "Z"				17.36
	Cost for 1 cum				1753.18
	Say				1753.20

16.3.4 Over burnt (Jhama) brick aggregate 120 mm to 40 mm

Details of cost for 1 cum.

MATERIAL

2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	1.00	500.00	500.00
2260	Carriage of Brick aggregate	cum	1.00	115.36	115.36
	Total				615.36 W
	Add 1 % Water charges on "W"				6.15
	TOTAL				621.51 X
	Add GST (multiplying factor 0.1405) on "X"				87.32
	TOTAL				708.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				106.33
	Total				815.16 Z
	Add Cess @ 1% on "Z"				8.15
	Cost for 1 cum				823.31
	Say				823.30

16.3.5 Over burnt (Jhama) brick aggregate 90 mm to 45 mm

Details of cost for 1 cum.

MATERIAL

2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	1.00	480.00	480.00
2260	Carriage of Brick aggregate	cum	1.00	115.36	115.36
	Total				595.36 W
	Add 1 % Water charges on "W"				5.95
	TOTAL				601.31 X
	Add GST (multiplying factor 0.1405) on "X"				84.48
	TOTAL				685.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				102.87
	Total				788.67 Z
	Add Cess @ 1% on "Z"				7.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 cum				796.55
	Say				796.55
16.3.6	Stone screening 13.2 mm nominal size (Type A)				
	Details of cost for 1 cum.				
	MATERIAL				
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	0.05	1150.00	57.50
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.80	1150.00	920.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	0.15	1400.00	210.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.00	106.13	106.13
	TOTAL				1293.63 W
	Add 1 % Water charges on "W"				12.94
	TOTAL				1306.57 X
	Add GST (multiplying factor 0.1405) on "X"				183.57
	TOTAL				1490.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				223.52
	Total				1713.66 Z
	Add Cess @ 1% on "Z"				17.14
	Cost for 1 cum				1730.80
	Say				1730.80
16.3.7	Stone screening 11.2 mm nominal size (Type B)				
	Details of cost for 1 cum.				
	MATERIAL				
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.10	1150.00	115.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	0.75	1400.00	1050.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	0.15	1400.00	210.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
2267	Carriage of Stone dust	cum	0.15	106.13	15.92
	TOTAL				1481.13 W
	Add 1 % Water charges on "W"				14.81
	TOTAL				1495.94 X
	Add GST (multiplying factor 0.1405) on "X"				210.18
	TOTAL				1706.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				255.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1962.04 Z
	Add Cess @ 1% on "Z"				19.62
	Cost for 1 cum				1981.66
	Say				1981.65
16.3.8	bajri				
	Details of cost for 1 cum.				
	MATERIAL				
304	Bajri	cum	1.00	1000.00	1000.00
2311	Carriage of bajri	cum	1.00	106.13	106.13
	TOTAL				1106.13 W
	Add 1 % Water charges on "W"				11.06
	TOTAL				1117.19 X
	Add GST (multiplying factor 0.1405) on "X"				156.97
	TOTAL				1274.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				191.12
	Total				1465.28 Z
	Add Cess @ 1% on "Z"				14.65
	Cost for 1 cum				1479.93
	Say				1479.95
16.3.9	Good earth				
	Details of cost for 1 cum.				
	Excavation :				
	LABOUR				
0017	Beldar	day	0.177	320.83	56.79
0018	Coolie	day	0.167	320.83	53.58
979	Royalty for good earth	cum	1.00	40.00	40.00
2241	Carriage of Good earth by mechanical transport upto 5 km lead	cum	1.00	132.66	132.66
	TOTAL				283.03 W
	Add 1 % Water charges on "W"				2.83
	TOTAL				285.86 X
	Add GST (multiplying factor 0.1405) on "X"				40.16
	TOTAL				326.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				374.92 Z
	Add Cess @ 1% on "Z"				3.75
	Cost for 1 cum				378.67
	Say				378.65

16.3.10 Moorum

Details of cost for 1 cum.

MATERIAL

810	Moorum	cum	1.00	500.00	500.00
2265	Carriage of Moorum	cum	1.00	106.13	106.13
	TOTAL				606.13 W
	Add 1 % Water charges on "W"				6.06
	TOTAL				612.19 X
	Add GST (multiplying factor 0.1405) on "X"				86.01
	TOTAL				698.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				104.73
	Total				802.93 Z
	Add Cess @ 1% on "Z"				8.03
	Cost for 1 cum				810.96
	Say				810.95

16.4 Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .

LABOUR

0017	Beldar	day	0.26	320.83	83.42
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	day	0.26	320.83	83.42
	Roller charges (one roller does 30 cum consolidation per day of 8 hours and uses 18 litres of diesel oil).				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.033	3000.00	99.00
0016	Chowkidar	day	0.033	320.83	10.59
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				365.29 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.65
	TOTAL				368.95 X
	Add GST (multiplying factor 0.1405) on "X"				51.84
	TOTAL				420.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				63.12
	Total				483.90 Z
	Add Cess @ 1% on "Z"				4.84
	Cost for 1 cum				488.74
	Say				488.75

16.5 Laying water bound macadam sub-base with brick aggregate and binding material, earth etc. including screening, sorting and spreading to template and consolidation with light power road-roller etc. complete.(payment for brick aggregate and moorum etc. to be made separately)

16.5.1 Over burnt (Jhama) brick aggregate 120 mm to 40 mm

Details of cost for 1 cum.

LABOUR

0017	Beldar	day	0.35	320.83	112.29
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	Day	0.18	320.83	57.75
	Roller charges (one roller does 230cum. consolidation per day of 8 hours and uses 18 litres of diesel oil)				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.004	3000.00	12.00
0016	Chowkidar	day	0.004	320.83	1.28
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				272.20 W
	Add 1 % Water charges on "W"				2.72
	TOTAL				274.92 X
	Add GST (multiplying factor 0.1405) on "X"				38.63
	TOTAL				313.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.03
	Total				360.58 Z
	Add Cess @ 1% on "Z"				3.61
	Cost for 1 cum				364.19
	Say				364.20

16.5.2 Over burnt (Jhama) brick aggregate 90 mm to 45 mm

Details of cost for 1 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0017	Beldar	day	0.35	320.83	112.29
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	day	0.18	320.83	57.75
	Roller charges (one roller does 230cum. consolidation per day of 8 hours and uses 18 litres of diesel oil)				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.004	3000.00	12.00
0016	Chowkidar	day	0.004	320.83	1.28
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				272.20 W
	Add 1 % Water charges on "W"				2.72
	TOTAL				274.92 X
	Add GST (multiplying factor 0.1405) on "X"				38.63
	TOTAL				313.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.03
	Total				360.58 Z
	Add Cess @ 1% on "Z"				3.61
	Cost for 1 cum				364.19
	Say				364.20
16.6	Supplying, stacking and Spreading 6 mm thick bajri, watering and rolling complete including preparation of the surface and rolling.				
16.6.1	With road roller/ hand roller				
	Details of cost for 6 mm thick and 100 sqm area = 0.60 cum. (A) Supplying and stacking of bajri at site.				
	MATERIAL				
304	Bajri	cum	0.60	1000.00	600.00
2311	Carriage of bajri	cum	0.60	106.13	63.68
	(B) Spreading of bajri				
	LABOUR				
0017	Beldar	day	0.54	320.83	173.25
0011	Bhisti	day	0.54	320.83	173.25
	Roller charges (one roller does 1860sqm. consolidation per day of 8 hours and uses 18 litres of diesel oil)				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.054	3000.00	162.00
0016	Chowkidar	day	0.054	320.83	17.32
	TOTAL				1189.50 W
	Add 1 % Water charges on "W"				11.89
	TOTAL				1201.39 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				168.80
	TOTAL				1370.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				205.53
	Total				1575.72 Z
	Add Cess @ 1% on "Z"				15.76
	Cost for 100 sqm.				1591.48
	Cost per sqm.				15.91
	Say				15.90
16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.				
16.7.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for 10m.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular)	1000 Nos	0.16	4500.00	720.00
	bricks class designation 7.5 including 12% wastage				
2201	Carriage of Bricks	1000 Nos	0.16	283.01	45.28
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.17	476.00	80.92
0024	Mason (brick layer) 2nd class	day	0.17	374.50	63.67
0018	Coolie	day	0.35	320.83	112.29
9999	Removal of rubbish	L.S.	17.94	2.00	35.88
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				1075.98 W
	Add 1 % Water charges on "W"				10.76
	TOTAL				1086.74 X
	Add GST (multiplying factor 0.1405) on "X"				152.69
	TOTAL				1239.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				185.91
	Total				1425.34 Z
	Add Cess @ 1% on "Z"				14.25
	Cost for 10m.				1439.59
	Cost per m.				143.96
	Say				143.95
16.8	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.8.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					
	Details of cost for 10m.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular)	1000 Nos	0.049	4500.00	220.50
	bricks class designation 7.5 including 12% wastage				
2201	Carriage of Bricks	1000 Nos	0.049	283.01	13.87
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.04	476.00	19.04
0024	Mason (brick layer) 2nd class	day	0.04	374.50	14.98
0018	Coolie	day	0.09	320.83	28.87
9999	Removal of rubbish	L.S.	4.16	2.00	8.32
	TOTAL				305.58 W
	Add 1 % Water charges on "W"				3.06
	TOTAL				308.64 X
	Add GST (multiplying factor 0.1405) on "X"				43.36
	TOTAL				352.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.80
	Total				404.80 Z
	Add Cess @ 1% on "Z"				4.05
	Cost for 10m.				408.85
	Cost per m.				40.89
	Say				40.90
16.9 Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.					
	Details of cost for 100sqm.				
	LABOUR				
0017	Beldar	day	1.35	320.83	433.12
0018	Coolie	day	1.08	320.83	346.50
	Consolidation of scarified material				
	100sqm.x50mm = 5cum + Less 20% wastage				
	= 1 cum.				
	= 4 cum.				
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.132	3000.00	396.00
0016	Chowkidar	day	0.132	320.83	42.35
9999	Sundries	L.S.	5.46	2.00	10.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1228.89 W
	Add 1 % Water charges on "W"				12.29
	TOTAL				1241.18 X
	Add GST (multiplying factor 0.1405) on "X"				174.39
	TOTAL				1415.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				212.33
	Total				1627.89 Z
	Add Cess @ 1% on "Z"				16.28
	Cost for 100 sqm.				1644.17
	Cost per sqm.				16.44
	Say				16.45

16.10 Making bajri path including preparation of subgrade, supplying and laying brick aggregate of 50 mm nominal size 7.5 cm deep with blinding material consisting of 12 mm moorum and 12 mm bajri consolidated with road roller.

Details of cost for 100sqm.

Earth work in excavation including dressing etc.
100x0.075=7.5cum.

2.6.1	(Rate as per item no.2.6.1 of S.H. Earth work)	cum	7.50	131.05	982.89 A
	Collection and stacking of brick aggregate 53mm nominal size 100x0.075 =7.50cum.				
286	Brick Aggregate (Single size) : 50 mm nominal size	cum	7.50	650	4875.00
2260	Carriage of Brick aggregate	cum	7.50	115.35876	865.19
	Supply staking bajri 100x0.012= 1.2 cum				
16.3.8	Rate as per Item Number 16.3.8 of SH: Road Work	cum	1.20	1479.95	1775.94 A
	Collection and stacking of moorum at site 100x0.012 = 1.20cum.				
16.3.10	Rate as per Item Number 16.3.10 of SH: Road Work	cum	1.20	810.95	973.15 A
	Spreading and consolidation of brick aggregate and blinding material etc.				
	LABOUR				
0017	Beldar	day	1.95	320.83	625.62
0018	Coolie	day	2.63	320.83	843.78
0011	Bhisti	day	1.35	320.83	433.12
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.135	3000.00	405.00
0016	Chowkidar	day	0.135	320.83	43.31
9999	Sundries	L.S.	20.15	2.00	40.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Spreading of bajri, watering and rolling				
003	Hire charges of Diesel Road Roller - 8 to 10	day	0.054	3000.00	162.00
0016	tonne Chowkidar	day	0.054	320.83	17.32
	TOTAL				12042.63 W
	Add 1 % Water charges on "W-A"	8310.65			83.11
	TOTAL				12125.74 X
	Add GST (multiplying factor 0.1405) on "X-A"	8393.76			1179.32
	TOTAL				13305.06 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9573.08			1435.96
	Total				14741.02 Z
	Add Cess @ 1% on "Z-A"	11009.04			110.09
	Cost for 100 sqm.				14851.11
	Cost per sqm.				148.51
	Say				148.50

16.11 Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.

Details of cost for 10 sqm.

MATERIAL

1158	Stone for pitching 15 cm x 22.5 cm	cum	2.25	600.00	1350.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab 2.25x2245/1000 = 5.05 t	tonne	5.05	94.34	476.41
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.08	476.00	514.08
0024	Mason (brick layer) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	2.15	320.83	689.78
0018	Coolie	day	1.61	320.83	516.54
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				3964.79 W
	Add 1 % Water charges on "W"				39.65
	TOTAL				4004.43 X
	Add GST (multiplying factor 0.1405) on "X"				562.62
	TOTAL				4567.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				685.06
	Total				5252.12 Z
	Add Cess @ 1% on "Z"				52.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 10 sqm.				5304.64
	Cost per sqm.				530.46
	Say				530.45
16.12	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete :				
16.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for 10 sqm.				
	MATERIAL				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	0.645	4500.00	2902.50
2201	Carriage of Bricks	1000 Nos	0.645	283.01	182.54
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.40	476.00	190.40
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	1.08	320.83	346.50
	TOTAL				3771.74 W
	Add 1 % Water charges on "W"				37.72
	TOTAL				3809.46 X
	Add GST (multiplying factor 0.1405) on "X"				535.23
	TOTAL				4344.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				651.70
	Total				4996.39 Z
	Add Cess @ 1% on "Z"				49.96
	Cost for 10 sqm.				5046.35
	Cost per sqm.				504.64
	Say				504.65

16.13 Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, bajri and labour required.

16.13.1 bituminous portion

Details of cost for 1.08cum. (road 6 metres wide, 0.6 metre length wise and 0.30m (average depth) volume = 1.08 cum).

MATERIAL

Supplying and stacking stone aggregate 53mm to 24 mm nominal size at site.

16.3.3	Rate as per Item Number 16.3.3 of SH: Road Work	cum	0.09	1753.20	157.79 A

Supplying and stacking bajri at site

16.3.8	Rate as per Item Number 16.3.8 of SH: Road Work	cum	0.023	1479.95	34.04 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Supplying and stacking moorum at site				
16.3.10	Rate as per Item Number 16.3.10 of SH: Road Work	cum	0.022	810.95	17.84 A
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.092	1150.00	105.80
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.092	106.13	9.76
309	Paving bitumen VG-10 of approved quality	tonne	0.011	25614.00	281.75
2211	Carriage of Tar bitumen	tonne	0.011	106.13	1.17
	LABOUR				
	For cutting road and taking out soling and metalling including sorting and screening.				
0017	Beldar	day	0.96	320.83	308.00
0018	Coolie	day	0.48	320.83	154.00
	Relaying soling stone 3.6x0.15=0.54cum.				
0017	Beldar	day	0.24	320.83	77.00
0018	Coolie	day	0.24	320.83	77.00
	Relaying road metal with extra quantity and consolidation to 0.10m, thickness 3.6x0.10=0.36cum.				
0017	Beldar	day	0.71	320.83	227.79
0018	Coolie	day	0.48	320.83	154.00
0011	Bhisti	day	0.100	320.83	32.08
	Painting two coats, 3.6sqm. including labour for spreading grit				
0017	Beldar	day	0.48	320.83	154.00
0018	Coolie	day	0.48	320.83	154.00
9999	Barrier, chowkidar, sprayman, mate, etc.	L.S.	40.43	2.00	80.86
	TOTAL				2026.87 W
	Add 1 % Water charges on "W-A"	1817.21			18.17
	TOTAL				2045.05 X
	Add GST (multiplying factor 0.1405) on "X-A"	1835.38			257.87
	TOTAL				2302.92 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2093.25			313.99
	Total				2616.90 Z
	Add Cess @ 1% on "Z-A"	2407.24			24.07
	Cost for 1.08 cum.				2640.98
	Cost per cum.				2445.35
	Say				2445.35

16.13.2 Water bound macadam

Details of cost for 0.90cum.

Consider a road 6 metres wide and 0.6m. lengthwise and 0.25m cm average depth =0.90cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
16.3.3	Supplying and stacking stone aggregate 53mm to 24mm nominal size at site. Rate as per Item Number 16.3.3 of SH: Road Work	cum	0.09	1753.20	157.79 A
16.3.8	Supplying and stacking bajri at site Rate as per Item Number 16.3.8 of SH: Road Work	cum	0.023	1479.95	34.04 A
16.3.10	Supplying and stacking moorum at site. Rate as per Item Number 16.3.10 of SH: Road Work LABOUR	cum	0.022	810.95	17.84 A
0017	For cutting road and taking out soling and metalling including sorting and screening. Beldar	day	0.48	320.83	154.00
0018	Coolie	day	0.24	320.83	77.00
	For relaying soling stone 3.6x0.15=0.54cum.				
0017	Beldar	day	0.24	320.83	77.00
0018	Coolie	day	0.24	320.83	77.00
	For relaying road metal with extra quantity and consolidation to 0.10m thickness - 3.6x0.10=0.36cum.				
0017	Beldar	day	0.48	320.83	154.00
0018	Coolie	day	0.48	320.83	154.00
0011	Bhisti	day	0.10	320.83	32.08
9999	Barrier and chowkidar etc.	L.S.	53.82	2.00	107.64
	TOTAL				1042.38 W
	Add 1 % Water charges on "W-A"	832.72			8.33
	TOTAL				1050.71 X
	Add GST (multiplying factor 0.1405) on "X-A"	841.04			118.17
	TOTAL				1168.88 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	959.21			143.88
	Total				1312.76 Z
	Add Cess @ 1% on "Z-A"	1103.09			11.03
	Cost for 0.90 cum.				1323.79
	Cost per cum.				1470.88
	Say				1470.90
16.14	Cutting bajri paths and making good the same including supply of extra quantities of brick aggregate, moorum and bajri required.				
	Details of cost for 10 sqm.				
	10x0.075=0.75cum.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Supplying and stacking 50mm brick aggregate at site(extra quantity)				
286	Brick Aggregate (Single size) : 50 mm nominal size	cum	0.19	650.00	123.50
2260	Carriage of Brick aggregate	cum	0.19	115.36	21.92
	Supplying and stacking bajri at site				
16.3.8	Rate as per Item Number 16.3.8 of SH: Road	cum	0.06	1479.95	88.80 A
	Supplying and stacking moorum at site				
16.3.10	Rate as per Item Number 16.3.10 of SH: Road	cum	0.06	810.95	48.66 A
	LABOUR				
	For cutting, sorting out, spreading and consolidation of aggregate				
0017	Beldar	day	1.60	320.83	513.33
0018	Coolie	day	0.80	320.83	256.66
	TOTAL				1052.86 W
	Add 1 % Water charges on "W-A"	915.41			9.15
	TOTAL				1062.02 X
	Add GST (multiplying factor 0.1405) on "X-A"	924.56			129.90
	TOTAL				1191.92 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1054.47			158.17
	Total				1350.09 Z
	Add Cess @ 1% on "Z-A"	1212.64			12.13
	Cost for 10 sqm.				1362.22
	Cost per sqm.				136.22
	Say				136.20

16.15 Supplying at site :

16.15.1 R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in- charge (cost of earth works in excavation, concrete works in foundation to be paid separately).

Details of cost for 10 posts = 0.336cum

Cubical contents of one post

Area bottom A1 = $(15+12.5)/2 \times 8.75 + \frac{1}{2} \times$

$3.14 \times (6.25)^2$

$= 120.31 + 61.38 = 181.69 \text{ sqcm.}$

Area bottom A2 = $(10+7.5)/2 \times 6.25 + \frac{1}{2} \times$

$3.14 \times (3.75)^2 \text{ sqm}$

$= 54.68 + 22.08 = 76.76 \text{ sqcm.}$

$(A1A2)^{\frac{1}{2}} = 118.10 \text{ sqcm}$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$A1+A2+(A1A2)^{1/2} = 0.03766 \text{ sqm}$ $\text{Volume} = (1.05)/3 \times 0.03766 = 0.01316 \text{ cum}$ $= 0.0132 \text{ cum.}$ $\text{Volume of lower and square portion}$ $(16.5 \times 16.5 \times 75) / 100^3 = 0.0204 \text{ cum. Total}$ $\text{volume} = 0.0132 + 0.0204 \text{ cum} = 0.0336 \text{ cum.}$ Qty. for 10 post $= 0.0336 \times 10 = 0.336 \text{ cum.}$ $\text{Cement concrete 1:1.5:3 (1 Cement : 1.5}$ $\text{Coarse sand : 3 graded stone aggregate}$ $12.5 \text{ mm nominal size})$				
4.1.2	Rate as per item no 4.1.2 of S.H. Concrete Work. Extra labour for laying cement concrete in RCC work	cum	0.336	6376.30	2142.44 A
0017	Beldar	day	0.034	320.83	10.91
0011	Bhisti	day	0.067	320.83	21.50
0023	Mason (brick layer) 1st class	day	0.013	476.00	6.19
0024	Mason (brick layer) 2nd class	day	0.013	374.50	4.87
0028	Mate	day	0.013	320.83	4.17
	$\text{M.S. Reinforcement 6mm dia. bars}$ $10 \times 4 \times 1.88 \text{ m} = 75.20 \text{ m} +$ $10 \times 9 \times 0.50 \text{ m} = 45.00 \text{ m} =$ 120.20 m $120.20 \text{ m} @ 0.22 \text{ kg/m} = 26.44 \text{ kg.}$				
5.22.2	Rate as per Item No.5.22.2 of SH: Reinforced cement concrete work Centering and shuttering	kg	26.44	78.95	2087.44 A
5.9.1	Rate as per item No.5.9.1 of SH : Reinforced cement concrete work 6mm C.Plaster 1:2 (1 Cement : 2 fine sand) Details of cost for 9.88 sqm. $(0.072)/10 \times 9.88 = 0.071$	sqm	6.99	216.45	1512.99 A
367	Portland Cement (OPC-43 grade)	tonne	0.05	4940.00	247.00
2209	Carriage of Cement	tonne	0.05	94.34	4.72
983	Fine sand	cum	0.07	900.00	63.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.07	106.13	7.43
	LABOUR				
0017	Beldar	day	0.05	320.83	16.04
0011	Bhisti	day	0.02	320.83	6.42
0040	Mason (average)	day	0.64	374.50	239.68
0018	Coolie	day	0.8	320.83	256.66
0011	Bhisti	day	0.27	320.83	86.62
9999	Hire and running charges of mixer	L.S.	1.95	2.00	3.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Extra for removing burr, cleaning with wire brushes, pock making with pointed tool etc. complete	L.S.	13.26	2.00	26.52
9999	Scaffolding and sundries	L.S.	11.57	2.00	23.14
9977	Carriage of RCC posts	L.S.	53.82	2.00	107.64
9999	Wooden plugs or 6mm bar nibs	L.S.	12.22	2.00	24.44
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				6930.74 W
	Add 1 % Water charges on "W-A"	1187.88			11.88
	TOTAL				6942.62 X
	Add GST (multiplying factor 0.1405) on "X-A"	1199.76			168.57
	TOTAL				7111.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1368.33			205.25
	Total				7316.44 Z
	Add Cess @ 1% on "Z-A"	1573.58			15.74
	Cost for 0.336 cum				7332.18
	Cost for one cum				21821.95
	Say				21821.95

16.15.2 Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately).

Details of cost for 27 sqm (209.25 kg).

MATERIAL

Steel wire fabric 0.9m wide rectangular mesh
75x25mm size weight not less than
7.75kg/sqm. 30x0.9 = 27sqm

1021	Hard drawn steel wire fabric	sqm	27.00	430.00	11610.00
2314	Carriage of Barbed wire	tonne	0.209	94.34	19.72
	7.75x27=209.25kg=0.209tonne				
	TOTAL				11629.72 W
	Add 1 % Water charges on "W"				116.30
	TOTAL				11746.01 X
	Add GST (multiplying factor 0.1405) on "X"				1650.31
	TOTAL				13396.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				2009.45
	Total				15405.78 Z
	Add Cess @ 1% on "Z"				154.06
	Cost for 209.25 kg				15559.84

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per kg.				74.36
	Say				74.35
16.16	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.				
	Details of cost for one set				
	MATERIAL				
1030	Galvanised steel turn buckles	each	1.00	25.00	25.00
1028	Straining bolts	each	1.00	80.00	80.00
9977	Carriage of turn buckles and straining bolts Labour for fixing straining bolts and turn buckles	L.S.	2.73	2.00	5.46
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
	TOTAL				147.91 W
	Add 1 % Water charges on "W"				1.48
	TOTAL				149.39 X
	Add GST (multiplying factor 0.1405) on "X"				20.99
	TOTAL				170.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.56
	Total				195.94 Z
	Add Cess @ 1% on "Z"				1.96
	Cost per set				197.89
	Say				197.90

16.17 Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :Payment to be made per metre cost of total length of barbed wire used.

16.17.1 With G.I. barbed wire

Details of cost for 30m

MATERIAL

G.I. barbed wire 30x9 = 270m +

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	10x6.32 = 63m				
	Total = 333m				
	333m @9.38kg/100m =31.24kg = 0.31q				
1029	Galvanised steel barbed wire	quintal	0.31	5500.00	1705.00
2314	Carriage of Barbed wire	tonne	0.03	94.34	2.83
9999	G.I. staples or binding wire	L.S.	49.40	2.00	98.80
	LABOUR				
	Labour for fixing costs in line, fixing and stretching wire				
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.50	320.83	160.42
0012	Blacksmith 1st class	day	0.50	476.00	238.00
0013	Blacksmith 2nd class	day	0.50	374.50	187.25
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				2521.40 W
	Add 1 % Water charges on "W"				25.21
	TOTAL				2546.61 X
	Add GST (multiplying factor 0.1405) on "X"				357.80
	TOTAL				2904.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				435.66
	Total				3340.07 Z
	Add Cess @ 1% on "Z"				33.40
	Cost for 333m				3373.47
	Cost per m				10.13
	Say				10.15

16.18 Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.

16.18.1 With G.I. barbed wire

Details of cost for 30m

MATERIAL

G.I. barbed wire

30x9 = 270.00m

2x10x(12+32)^{1/2} = 63.24

= 333.24m

333.24m @ 9.38kg/100m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	=31.26 kg say 0.31 q				
1029	Galvanised steel barbed wire	quintal	0.31	5500.00	1705.00
2314	Carriage of Barbed wire	tonne	0.031	94.34	2.92
	Supplying and fixing Turn buckle & staple				
16.16	Rate as per Item Number 16.16 of SH: Road Work	each set	10.00	197.90	1979.04 A
9999	G.I. staples	L.S.	49.40	2.000	98.80
	Labour for fixing posts in line and fixing and stretching wire:				
0023	Mason (brick layer) 1st class	day	0.12	476.000	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.500	44.94
0017	Beldar	day	0.50	320.830	160.42
0012	Blacksmith 1st class	day	0.50	476.000	238.00
0013	Blacksmith 2nd class	day	0.50	374.500	187.25
	TOTAL				4473.49 W
	Add 1 % Water charges on "W-A"	2494.45			24.94
	TOTAL				4498.44 X
	Add GST (multiplying factor 0.1405) on "X-A"	2519.39			353.97
	TOTAL				4852.41 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2873.37			431.01
	Total				5283.42 Z
	Add Cess @ 1% on "Z-A"	3304.37			33.04
	Cost for 333.24m				5316.46
	Cost per m				15.95
	Say				15.95

16.19 Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.

Details of cost for 1 quintal

MATERIAL

M.S. angle = 1.00 qtl.

Add 5% wastage = 0.05 qtl. Total = 1.05 qtl

1007	Structurals such as tees, angles channels and R.S. joists	quintal	1.05	4600.00	4830.00
2205	Carriage of Steel	tonne	0.105	94.34	9.91
	LABOUR				
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.50	320.83	160.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For spotting, bending of angle and drilling holes etc. :				
0013	Blacksmith 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries such as drilling bit etc.	L.S.	19.76	2.00	39.52
	TOTAL				6016.05 W
	Add 1 % Water charges on "W"				60.16
	TOTAL				6076.21 X
	Add GST (multiplying factor 0.1405) on "X"				853.71
	TOTAL				6929.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				1039.49
	Total				7969.40 Z
	Add Cess @ 1% on "Z"				79.69
	Cost for 1 qunital				8049.09
	Cost of one kg				80.49
	Say				80.50

16.20 Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately).

Details of cost for 30 metres i.e.30x1.20
=36.00sqm

Labour for fixing posts in line fixing and stretching - welded wire fabric :

0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.5	320.83	160.42
0012	Blacksmith 1st class	day	0.5	476.00	238.00
0013	Blacksmith 2nd class	day	0.5	374.50	187.25
9999	G.I. staple or binding wire	L.S.	53.82	2.00	107.64
9999	Sundries	L.S.	53.82	2.00	107.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				903.01 W
	Add 1 % Water charges on "W"				9.03
	TOTAL				912.04 X
	Add GST (multiplying factor 0.1405) on "X"				128.14
	TOTAL				1040.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				156.03
	Total				1196.20 Z
	Add Cess @ 1% on "Z"				11.96
	Cost for 36 sqm				1208.16
	Cost per sqm				33.56
	Say				33.55

16.21 Engraving letters in hard stone

Details of cost for 6 letters 8 cm height

LABOUR

For Engraving stone-

0026	Mason (for ornamental stone work) 1st class	day	0.38	476.00	180.88
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				194.40 W
	Add 1 % Water charges on "W"				1.94
	TOTAL				196.34 X
	Add GST (multiplying factor 0.1405) on "X"				27.59
	TOTAL				223.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.59
	Total				257.52 Z
	Add Cess @ 1% on "Z"				2.58
	Cost of 6 letters of 8cm heights				260.10
	Cost per cm. height per letter				5.42
	Say				5.40

16.22 Providing and fixing 15x15x90 cm boundary stone of hard stone with top 30 cm chisel dressed on all four sides including top (cost of excavation, refilling and concrete etc. to be paid for separately).

Details of cost for one stone

1151	Boundry stone top chisel dressed 15x15x90 cm Labour for fixing	each	1.00	80.00	80.00
0017	Beldar	day	0.12	320.83	38.50
9977	Carriage to site	L.S.	4.16	2.00	8.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				126.82 W
	Add 1 % Water charges on "W"				1.27
	TOTAL				128.09 X
	Add GST (multiplying factor 0.1405) on "X"				18.00
	TOTAL				146.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				21.91
	Total				168.00 Z
	Add Cess @ 1% on "Z"				1.68
	Cost of each.				169.68
	Say				169.70

16.23 Providing and fixing 15 cm dia at top, 20 cm at bottom and 90 cm high precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) boundary stone as per standard design, including finishing smooth with cement mortar 1:3 (1 cement : 3 fine sand) (cost of excavation, refilling and concreting to be paid for separately).

Details of cost for one stone

(i) Cement concrete 1:1½:3 (1 cement : 1½

Coarse sand : 3 graded stone aggregate

20mm nominal size) Volume of frustum of cone:

$L/3 \times [A_1 + A_2 + \sqrt{A_1 A_2}] = 0.825/3 \times$

$[0.095^2 +$

$0.075^2 + \sqrt{0.095 \times 0.075^2}] \times 3.142$

0.01882

(A) Volume of hemi sphere:

$\frac{1}{2} \times \frac{4}{3} \times \pi \times r^3 =$

$\frac{1}{2} \times (\frac{4}{3}) \times (\frac{22}{7}) \times 0.075^3 = 0.00100$ (B)

Total volume = A+B = 0.01982 Say 0.02cum

4.1.2	Rate as per item no 4.1.2 of S.H. Concrete Work.	cum	0.02	6376.30	127.53 A

(ii) Extra for laying cement concrete in

RCC work

LABOUR

0017	Beldar	day	0.002	320.83	0.64
0011	Bhisti	day	0.004	320.83	1.28
0023	Mason (brick layer) 1st class	day	0.0008	476.00	0.38
0024	Mason (brick layer) 2nd class	day	0.0008	374.50	0.30
0028	Mate	day	0.0008	320.83	0.26

(iii) M.S. reinforcement-

6mm dia. bar

5.99 metre = $5.99 \times 0.22 = 1.32$ kg.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work (iv) Centering and shuttering- $1/2 \times 3.142 (0.19+0.15) \times 0.825 = 0.441 +$ $3.142/4(0.19)^2 = 0.028 +$ $1/2 \times 4 \times 3.142(0.075)^2 = 0.035 = 0.504$ Say 0.50sqm.	kg	1.32	75.40	99.53 A
5.9.1	Rate as per item No.5.9.1 of SH : Reinforced cement concrete work (v) 6mm cement plaster 1:3 (1 Cement : 3 fine sand)- $1/2 \times 3.142 (0.19+0.15) \times 0.825 = 0.44 +$ $3.142/4(0.19)^2 = 0.028 +$ $1/2 \times 4 \times 3.142(0.075)^2 = 0.035 = 0.504$ Say 0.50sqm. MATERIAL	sqm	0.50	216.45	108.23 A
367	Portland Cement (OPC-43 grade)	tonne	0.0018	4940.00	8.89
2209	Carriage of Cement	tonne	0.0018	94.34	0.17
983	Fine sand	cum	0.0385	900.00	34.65
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) Labour for mortar	cum	0.0385	106.13	4.09
0017	Beldar	day	0.0027	320.83	0.87
0011	Bhisti	day	0.0002	320.83	0.06
9999	Hire and running charges of mixer	L.S.	0.10	2.00	0.20
9999	Sundries	L.S.	0.05	2.00	0.10
	Labour for plaster				
0040	Mason (average)	day	0.026	374.50	9.74
0018	Coolie	day	0.038	320.83	12.19
0011	Bhisti	day	0.046	320.83	14.76
9999	Extra for removing burr	L.S.	0.68	2.00	1.36
9999	Scaffolding, sundries etc. (vi) Labour for fixing	L.S.	0.60	2.00	1.20
0017	Beldar	day	0.12	320.83	38.50
9977	Carriage to site	L.S.	4.16	2.00	8.32
	TOTAL				473.24 W
	Add 1 % Water charges on "W-A"	137.96			1.38
	TOTAL				474.62 X
	Add GST (multiplying factor 0.1405) on "X-A"	139.34			19.58
	TOTAL				494.20 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	158.91			23.84
	Total				518.04 Z
	Add Cess @ 1% on "Z-A"	182.75			1.83
	Cost of each.				519.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				519.85
16.24	Providing and fixing precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) kilometre stone as per standard design, including finishing smooth in 1:3 cement mortar (1 cement : 3 fine sand) but excluding the cost of earth work, concrete in foundation, painting and lettering etc. which shall be paid for separately.				
16.24.1	35x111x25 cm size				
	Details of cost for one stone				
	(i) Cement concrete 1:1.5:3 (1 cement :1.5 Coarse sand :3 graded stone aggregate 20mm nominal size) in Kilometre stone				
	0.35x0.25x0.835m = 0.073				
	0.37x0.27x0.10m = 0.010				
	1/2x22/7x(0.175) ² x0.25m = 0.012 = 0.095cum				
	Say 0.10cum.				
4.1.2	Rate as per item no 4.1.2 of S.H. Concrete Work.	cum	0.10	6376.30	637.63 A
	(ii) Extra for laying cement concrete in RCC work				
0017	Beldar	day	0.01	320.83	3.21
0011	Bhisti	day	0.02	320.83	6.42
0023	Mason (brick layer) 1st class	day	0.004	476.00	1.90
0024	Mason (brick layer) 2nd class	day	0.004	374.50	1.50
0028	Mate	day	0.004	320.83	1.28
	(iii) M.S. reinforcement-				
	0.10cum @48.06kg/cum. =4.806kg.				
	Say 4.81kg.				
5.22.1	Rate as per item no. 5.22.1 of	kg	4.81	75.40	362.69 A
	SH : Reinforced cement concrete work				
	(iv) Centering and shuttering-				
	(0.35+2x0.25)x0.835 = 0.710 sqm				
	0.35x0.25 = 0.088sqm				
	(0.37+2x0.27)x0.10 = 0.091sqm				
	2x0.37x0.01 = 0.007 sqm				
	2x2x0.25x0.1 = 0.010sqm 1/2x3.142/4x(0.35) ²				
	= 0.048sqm 1/2x0.35x0.25x3.142 = 0.138sqm.				
	= 1.092sqm. Say 1.09 sqm				
5.9.1	Rate as per item No.5.9.1 of	sqm	1.09	216.45	235.93 A
	SH : Reinforced cement concrete work (v)				
	6mm cement plaster 1:3 (1 Cement : 3 fine sand)-				
	Qty. as per centering and shuttering				
	= 1.092sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.35x0.835 = 0.292sqm				
	0.37x0.10 = 0.037sqm				
	1/2x3.142/4x(0.35) ² = 0.048sqm				
	2x0.37x0.01 = 0.007 sqm				
	= 1.476 sqm Say 1.48 sqm				
367	Portland Cement (OPC-43 grade)	tonne	0.054	4940.00	266.76
2209	Carriage of Cement	tonne	0.054	94.34	5.09
983	Fine sand	cum	0.011	900.00	9.90
2261	Carriage of Fine sand (1 part badarpur sand	cum	0.011	106.13	1.17
	: 2 parts Sand)				
	Labour for mortar				
0017	Beldar	day	0.008	320.83	2.57
0011	Bhisti	day	0.0007	320.83	0.22
9999	Hire and running charges of mixer	L.S.	0.03	2.00	0.06
9999	Sundries	L.S.	0.13	2.00	0.26
	Labour for plaster				
0040	Mason (average)	day	0.075	374.50	28.09
0018	Coolie	day	0.111	320.83	35.61
0011	Bhisti	day	0.136	320.83	43.63
9999	Extra for removing burr	L.S.	1.95	2.00	3.90
9999	Scaffolding, sundries etc. (vi) Labour for fixing	L.S.	1.82	2.00	3.64
0017	Beldar	day	0.20	320.83	64.17
9977	Carriage to site	L.S.	13.52	2.00	27.04
	TOTAL				1742.68 W
	Add 1 % Water charges on "W-A"	506.42			5.06
	TOTAL				1747.74 X
	Add GST (multiplying factor 0.1405) on "X-A"	511.49			71.86
	TOTAL				1819.61 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	583.35			87.50
	Total				1907.11 Z
	Add Cess @ 1% on "Z-A"	670.85			6.71
	Cost per stone				1913.82
	Say				1913.80
16.24.2	50x152.5x25 cm size				
	Details of cost for one stone				
	(i) Cement concrete 1:1.5:3 (1 cement :1.5				
	Coarse sand :3 graded stone aggregate				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	20mm nominal size) $0.50 \times 0.25 \times 1.145\text{m} = 0.143\text{cum.} +$ $0.52 \times 0.27 \times 0.13\text{m} = 0.018\text{cum.} +$ $1/2 \times 22/7 \times (0.25)^2 \times 0.25\text{m} = 0.025\text{cum.}$ $= 0.186 \text{ cum. Say } 0.19\text{cum.}$				
4.1.2	Rate as per item no 4.1.2 of S.H. Concrete Work. (ii) Extra for laying cement concrete in RCC work	cum	0.19	6376.30	1211.50 A
0017	Beldar	day	0.019	320.83	6.10
0011	Bhisti	day	0.038	320.83	12.19
0023	Mason (brick layer) 1st class	day	0.008	476.00	3.81
0024	Mason (brick layer) 2nd class	day	0.008	374.50	3.00
0028	Mate	day	0.008	320.83	2.57
	(iii) M.S. reinforcement- $0.19\text{cum} @ 48.06\text{kg/cum.} = 9.131\text{kg.}$ Say 9.13 kg.				
5.22.1	Rate as per item no. 5.22.1 of SH : Reinforced cement concrete work (iv) Centering and shuttering- $(0.50 + 2 \times 0.25) \times 1.145 = 1.145 \text{ sqm}$ $1/2 \times (0.25)^2 \times 3.142 = 0.098$ $3.142(0.25) \times (0.25) = 0.196$ $(0.52 + 2 \times 0.27) \times 0.13 = 0.138$ $2 \times 0.52 \times 0.01 = 0.10$ $2 \times 2 \times 0.25 \times 0.01 = 0.010$ $1 \times 0.50 \times 0.25 = 0.125$ $= 1.722\text{sqm. Say } 1.72 \text{ sqm}$	kg	9.13	75.40	688.44 A
5.9.1	Rate as per item No.5.9.1 of SH : Reinforced cement concrete work (v) 6mm cement plaster 1:3 (1 Cement : 3 fine sand)- Qty. as per centering and shuttering $= 1.722\text{sqm.} +$ $0.50 \times 1.145 = 0.572 +$ $0.52 \times 0.13 = 0.068\text{sqm.} +$ $1/2 \times (0.25)^2 \times 3.142 = 0.098 +$ $2 \times 0.52 \times 0.01 = 0.010$ $= 2.470\text{sqm Sq. } 2.47 \text{ sqm.}$ MATERIAL	sqm	1.72	216.45	372.30 A
367	Portland Cement (OPC-43 grade)	tonne	0.09	4940.00	444.60
2209	Carriage of Cement	tonne	0.09	94.34	8.49
983	Fine sand	cum	0.20	900.00	180.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) Labour for mortar	cum	0.20	106.13	21.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.013	320.83	4.17
0011	Bhisti	day	0.001	320.83	0.32
9999	Hire and running charges of mixer	L.S.	0.52	2.00	1.04
9999	Sundries	L.S.	0.26	2.00	0.52
	Labour for plaster				
0040	Mason (average)	day	0.126	374.50	47.19
0018	Coolie	day	0.185	320.83	59.35
0011	Bhisti	day	0.227	320.83	72.83
9999	Extra for removing burr	L.S.	3.38	2.00	6.76
9999	Scaffolding, sundries etc. (vi) Labour for fixing	L.S.	2.86	2.00	5.72
0017	Beldar	day	0.20	320.83	64.17
9977	Carriage to site	L.S.	13.52	2.00	27.04
	TOTAL				3243.32 W
	Add 1 % Water charges on "W-A"	971.08			9.71
	TOTAL				3253.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	980.79			137.80
	TOTAL				3390.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1118.59			167.79
	Total				3558.62 Z
	Add Cess @ 1% on "Z-A"	1286.38			12.86
	Cost per stone				3571.48
	Say				3571.50

16.24.3 35x93.5x18 cm size

Details of cost for one stone

(i) Cement concrete 1:1.5:3 (1 cement :1.5

Coarse sand :3 graded stone aggregate

20mm nominal size)

$0.35 \times 0.18 \times 0.835 \text{m} = 0.0526 \text{ cum.} + 0.37 \times 0.20 \times 0.10 \text{m} = 0.0074 \text{ cum.}$

$= 0.060 \text{ cum.}$

4.1.2	Rate as per item no 4.1.2 of S.H. Concrete Work.	cum	0.06	6376.30	382.58 A
	(ii) Extra for laying cement concrete in RCC work				
0017	Beldar	day	0.006	320.83	1.92
0011	Bhisti	day	0.012	320.83	3.85
0023	Mason (brick layer) 1st class	day	0.0024	476.00	1.14
0024	Mason (brick layer) 2nd class	day	0.0024	374.50	0.90
0028	Mate	day	0.0024	320.83	0.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(iii) M.S. reinforcement- 0.06cum @48.06kg/cum. =2.8836 kg. Say 2.88 kg.				
5.22.1	Rate as per item no. 5.22.1 of SH : Reinforced cement concrete work	kg	2.88	75.40	217.16 A
	(iv) Centering and shuttering- (0.35+2x0.18)x0.835 = 0.593 sqm (0.37+2x0.20)x0.10 = 0.077 sqm 2x0.35x0.18 = 0.126 sqm 2x0.37x0.01 = 0.007sqm 2x2x0.18x0.01 = 0.007sqm = 0.810 sqm				
5.9.1	Rate as per item No.5.9.1 of SH : Reinforced cement concrete work (v) 6mm cement plaster 1:3 (1 Cement : 3 fine sand)- Qty. as per centering and shuttering = 0.810sqm 0.35x0.835 = 0.292sqm 0.37x0.10 =0.037sqm 2x0.37x0.01 =0.007sqm = 1.146 sqm Say 1.15sqm MATERIAL	sqm	0.81	216.45	175.33 A
367	Portland Cement (OPC-43 grade)	tonne	0.042	4940.00	207.48
2209	Carriage of Cement	tonne	0.042	94.34	3.96
983	Fine sand	cum	0.009	900.00	8.10
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) Labour for mortar	cum	0.009	106.13	0.96
0017	Beldar	day	0.006	320.83	1.92
0011	Bhisti	day	0.0006	320.83	0.19
9999	Hire and running charges of mixer	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
	Labour for plaster				
0040	Mason (average)	day	0.058	374.50	21.72
0018	Coolie	day	0.086	320.83	27.59
0011	Bhisti	day	0.105	320.83	33.69
9999	Extra for removing burr	L.S.	1.56	2.00	3.12
9999	Scaffolding, sundries etc. (vi) Labour for fixing	L.S.	1.30	2.00	2.60
0017	Beldar	day	0.10	320.83	32.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage to site	L.S.	13.52	2.00	27.04
	TOTAL				1154.89 W
	Add 1 % Water charges on "W-A"		379.82		3.80
	TOTAL				1158.69 X
	Add GST (multiplying factor 0.1405) on "X-A"		383.62		53.90
	TOTAL				1212.59 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		437.52		65.63
	Total				1278.22 Z
	Add Cess @ 1% on "Z-A"		503.15		5.03
	Cost of each				1283.25
	Say				1283.25

16.25 Surface dressing on new surface with paving bitumen of grade VG - 10 of approved quality using 2.25 kg of bitumen per sqm with 1.65 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete:

Details of cost for 100 sqm.

MATERIAL

Bitumen S-90@2.25kg per sqm. =225 kg = 0.225 tonne.

309	Paving bitumen VG-10 of approved quality	tonne	0.225	25614.00	5763.15
2211	Carriage of Tar bitumen	tonne	0.225	106.13	23.88
	Stone aggregate 13.2mm nominal size @ 1.65cum. per 100sqm.				
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1.65	1150.00	1897.50
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.65	106.13	175.11
	Steam coal for heating bitumen @2 quintal per tonne of bitumen = 2x0.225=0.450q				
370	Coal (steam)	quintal	0.45	440.00	198.00
2200	Carriage of steam coal	tonne	0.045	121.29	5.46
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate (a) For cleaning :				
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating and spraying bitumen :				
0030	Mistry	day	0.08	476.00	38.08
0036	Sprayer (for bitumen, tar etc.)	day	0.11	320.83	35.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.93	320.83	298.37
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	0.93	320.83	298.37
0018	Coolie	day	1.55	320.83	497.29
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.12	800.00	96.00
007	Hire charges of Coaltar Sprayer (e) Misc:	day	0.11	300.00	33.00
364	Wire brush	each	0.11	20.00	2.20
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				10815.97 W
	Add 1 % Water charges on "W"				108.16
	TOTAL				10924.13 X
	Add GST (multiplying factor 0.1405) on "X"				1534.84
	TOTAL				12458.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				1868.84
	Total				14327.81 Z
	Add Cess @ 1% on "Z"				143.28
	Cost for 100 Sqm.				14471.09
	Cost per Sqm.				144.71
	Say				144.70

16.26 Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.

Details of cost for 100 sqm.

MATERIAL

Bitumen S-90/A-90 @

1.8kg/sqm.=180kg.=0.18 tonne

309	Paving bitumen VG-10 of approved quality	tonne	0.18	25614.00	4610.52
2211	Carriage of Tar bitumen	tonne	0.18	106.13	19.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1.50	1150.00	1725.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.50	106.13	159.20
	Steam coal for heating bitumen @2 quintal per tonne				
370	Coal (steam)	quintal	0.36	440.000	158.40
2200	Carriage of steam coal	tonne	0.036	121.291	4.37
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate (a) For cleaning :				
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating and spraying bitumen :				
0030	Mistry	day	0.08	476.00	38.08
0036	Sprayer (for bitumen, tar etc.)	day	0.11	320.83	35.29
0017	Beldar	day	1.38	320.83	442.75
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.27	320.83	86.62
0017	Beldar	day	0.85	320.83	272.71
0018	Coolie	day	0.85	320.83	272.71
	(d) Consolidation Charges				
0016	Chowkidar	day	0.11	320.83	35.29
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.12	800.00	96.00
007	Hire charges of Coaltar Sprayer (e) Misc:	day	0.11	300.00	33.00
364	Wire brush	each	0.11	20.00	2.20
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	16.38	2.00	32.76
	Second Coat				
	MATERIAL				
	Bitumen S-90/A-90 @ 1.10kg per sqm = 110kg.=0.11 tonne				
309	Paving bitumen VG-10 of approved quality	tonne	0.11	25614.00	2817.54
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1.00	1150.00	1150.00
2211	Carriage of Tar bitumen	tonne	0.11	106.13	11.67
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.00	106.13	106.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Steam coal for heating bitumen @2 quintal per tonne of bitumen				
370	Coal (steam)	quintal	0.22	440.00	96.80
2200	Carriage of steam coal	tonne	0.022	121.29	2.67
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate				
	(a) For cleaning and brushing loose chips:				
0028	Mate	day	0.06	320.83	19.25
0018	Coolie	day	0.97	320.83	311.21
	(b) For heating and spraying bitumen :				
0030	Mistry	day	0.05	476.00	23.80
0036	Sprayer (for bitumen, tar etc.)	day	0.07	320.83	22.46
0017	Beldar	day	0.75	320.83	240.62
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.07	320.83	22.46
0017	Beldar	day	0.62	320.83	198.91
0018	Coolie	day	0.62	320.83	198.91
	(d) Consolidation Charges				
0016	Chowkidar	day	0.15	320.83	48.12
0011	Bhisti	day	0.06	320.83	19.25
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.06	3000.00	180.00
007	Hire charges of Coaltar Sprayer	day	0.07	300.00	21.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.06	800.00	48.00
364	Wire brush	each	0.03	20.00	0.60
	(with thick wire)				
365	Soft brush	each	0.09	20.00	1.80
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				14903.00 W
	Add 1 % Water charges on "W"				149.03
	TOTAL				15052.03 X
	Add GST (multiplying factor 0.1405) on "X"				2114.81
	TOTAL				17166.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				2575.03
	Total				19741.87 Z
	Add Cess @ 1% on "Z"				197.42
	Cost for two coats per 100sqm.				19939.29
	Cost per Sqm.				199.39
	Say				199.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.27	Surface dressing on old surface with hot bitumen of grade VG - 10 of approved quality using 1.95 kg of bitumen per sqm with 1.50 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity, etc. complete.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Bitumen 1.95kg./sqm.= 195kg. or 0.195t				
309	Paving bitumen VG-10 of approved quality	tonne	0.195	25614.00	4994.73
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @ 1.50cum. per 100 sqm.	cum	1.50	1150.00	1725.00
2211	Carriage of Tar bitumen	tonne	0.195	106.13	20.70
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.50	106.13	159.20
	Steam coal for heating bitumen @2 quintal per tonne of bitumen				
370	Coal (steam)	quintal	0.39	440.00	171.60
2200	Carriage of steam coal	tonne	0.039	121.29	4.73
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate etc.				
	(a) For cleaning :				
0028	Mate	day	0.06	320.83	19.25
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.97	320.83	311.21
	(b) For heating and spraying bitumen :				
0030	Mistry	day	0.05	476.00	23.80
0036	Sprayer (for bitumen, tar etc.)	day	0.06	320.83	19.25
0017	Beldar	day	0.69	320.83	221.37
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.66	320.83	211.75
0017	Beldar	day	0.51	320.83	163.62
0018	Coolie	day	0.51	320.83	163.62
	(d) Consolidation Charges				
0016	Chowkidar	day	0.15	320.83	48.12
0011	Bhisti	day	0.06	320.83	19.25
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.06	3000.00	180.00
007	Hire charges of Coaltar Sprayer	day	0.06	300.00	18.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres (e) Misc:	day	0.06	800.00	48.00
	Brushes etc. for cleaning				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
364	Wire brush (with thick wire)	each	0.05	20.00	1.00
365	Soft brush	each	0.12	20.00	2.40
9999	Brooms and gunny bags	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				8699.92 W
	Add 1 % Water charges on "W"				87.00
	TOTAL				8786.92 X
	Add GST (multiplying factor 0.1405) on "X"				1234.56
	TOTAL				10021.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				1503.22
	Total				11524.71 Z
	Add Cess @ 1% on "Z"				115.25
	Cost for 100 sqm.				11639.96
	Cost per Sqm.				116.40
	Say				116.40

16.28 Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity , etc. complete :

16.28.1 Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)

Details of cost for 100 sqm.

MATERIAL

310	Bitumen emulsion	tonne	0.195	30099.00	5869.31
2211	Carriage of Tar bitumen	tonne	0.195	106.13	20.70
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @1.50 cum. per 100 sqm. = 1.50cum	cum	1.50	1150.00	1725.00
2202	Carriage of Stone aggregate below 40 mm nominal size Labour for cleaning the road surface, heating and spraying bitumen and aggregate : (a) For cleaning :	cum	1.50	106.13	159.20
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For Spraying bitumen emulsion :				
0030	Mistry	day	0.07	476.00	33.32
0036	Sprayer (for bitumen, tar etc.)	day	0.10	320.83	32.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.00	320.83	320.83
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	0.85	320.83	272.71
0018	Coolie	day	0.85	320.83	272.71
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.27	320.83	86.62
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
007	Hire charges of Coaltar Sprayer (e) Misc: Brushes etc. for cleaning	day	0.10	300.00	30.00
364	Wire brush (with thick wire)	each	0.11	20.00	2.20
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				10249.09 W
	Add 1 % Water charges on "W"				102.49
	TOTAL				10351.59 X
	Add GST (multiplying factor 0.1405) on "X"				1454.40
	TOTAL				11805.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				1770.90
	Total				13576.88 Z
	Add Cess @ 1% on "Z"				135.77
	Cost for 100 sqm.				13712.65
	Cost per Sqm.				137.13
	Say				137.15

16.29 Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/ sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete :

16.29.1 Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)

Details of cost for 100 sqm.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Bitumen emulsion @1.22 kg per Sqm. =122 kg. or 0.122 tonne				
310	Bitumen emulsion	tonne	0.122	30099.00	3672.08
2211	Carriage of Tar bitumen	tonne	0.122	106.13	12.95
	Stone chippings 11.2mm nominal size @ 1.10cum. per 100 sqm				
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1.10	1150.00	1265.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.10	106.13	116.74
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.06	320.83	19.25
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.97	320.83	311.21
	(b) For Spraying bitumen emulsion :				
0030	Mistry	day	0.05	476.00	23.80
0036	Sprayer (for bitumen, tar etc.)	day	0.06	320.83	19.25
0017	Beldar	day	0.63	320.83	202.12
	(c) For screening and spreading aggregate :				
0028	Mate	day	0.07	320.83	22.46
0017	Beldar	day	0.62	320.83	198.91
0018	Coolie	day	0.62	320.83	198.91
	(d) Consolidation Charges				
0016	Chowkidar	day	0.15	320.83	48.12
0011	Bhisti	day	0.15	320.83	48.12
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.06	3000.00	180.00
007	Hire charges of Coaltar Sprayer (e) Misc: Brushes etc. for cleaning	day	0.06	300.00	18.00
364	Wire brush (with thick wire)	each	0.11	20.00	2.20
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	2.73	2.00	5.46
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				6538.86 W
	Add 1 % Water charges on "W"				65.39
	TOTAL				6604.25 X
	Add GST (multiplying factor 0.1405) on "X"				927.90
	TOTAL				7532.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				1129.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				8661.97 Z
	Add Cess @ 1% on "Z"				86.62
	Cost for 100 sqm.				8748.59
	Cost per Sqm.				87.49
	Say				87.50

16.30 16.30 Providing and applying tack coat using hot straight run bitumen of grade VG 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :

16.30.1 On W.B.M. @ 0.75 Kg / sqm

Details of cost for 100 sqm.

MATERIAL

2916	Paving Asphalt VG -10 of approved quality	tonne	0.075	24000.00	1800.00
2211	Carriage of Tar bitumen	tonne	0.075	106.13	7.96
370	Coal (steam)	quintal	0.15	440.00	66.00
2200	Carriage of steam coal	tonne	0.015	121.29	1.82

MATERIAL

364	Wire brush (with thick wire)	each	0.05	20.00	1.00
365	Soft brush	each	0.12	20.00	2.40
9999	Gunny bags	L.S.	7.80	2.00	15.60
007	Hire charges of Coaltar Sprayer	day	0.03	300.00	9.00
9999	Sundries	L.S.	9.10	2.00	18.20

LABOUR

(a) For cleaning :

0028	Mate	day	0.06	320.83	19.25
0017	Beldar	day	1.46	320.83	468.41

(b) For heating bitumen:

0017	Beldar	day	0.19	320.83	60.96

(c) For applying tack coat:

0017	Beldar	day	0.47	320.83	150.79

TOTAL 2621.39 W

Add 1 % Water charges on "W" 26.21

TOTAL 2647.60 X

Add GST (multiplying factor 0.1405) on "X" 371.99

TOTAL 3019.59 Y

Add 15 % Contractor's profit and overheads on "Y" 452.94

Total 3472.53 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				34.73
	Cost for 100 sqm.				3507.25
	Cost per Sqm.				35.07
	Say				35.05
16.30.2	On bituminous surface @ 0.50 Kg / sqm				
	Details of cost for 100 sqm.				
	MATERIAL				
2916	Paving Asphalt VG -10 of approved quality	tonne	0.05	24000.00	1200.00
2211	Carriage of Tar bitumen	tonne	0.05	106.13	5.31
370	Coal (steam)	quintal	0.1	440.00	44.00
2200	Carriage of steam coal	tonne	0.01	121.29	1.21
	MATERIAL				
364	Wire brush (with thick wire)	each	0.05	20.00	1.00
365	Soft brush	each	0.12	20.00	2.40
9999	Gunny bags	L.S.	7.8	2.00	15.60
007	Hire charges of Coaltar Sprayer	day	0.03	300.00	9.00
9999	Sundries	L.S.	7.80	2.00	15.60
	LABOUR				
	(a) For cleaning :				
0028	Mate	day	0.06	320.83	19.25
0017	Beldar	day	1.46	320.83	468.41
	(b) For heating bitumen:				
0017	Beldar	day	0.19	320.83	60.96
	(c) For applying tack coat:				
0017	Beldar	day	0.47	320.83	150.79
	TOTAL				1993.53 W
	Add 1 % Water charges on "W"				19.94
	TOTAL				2013.46 X
	Add GST (multiplying factor 0.1405) on "X"				282.89
	TOTAL				2296.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				344.45
	Total				2640.81 Z
	Add Cess @ 1% on "Z"				26.41
	Cost for 100 sqm.				2667.22
	Cost per Sqm.				26.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				26.65
16.31	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.				
16.31.1	With rapid setting bitumen emulsion				
16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm				
	Details of cost for 3500 sqm.				
	MATERIAL				
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887-1995	tonne	1.40	19000.00	26600.00
2211	Carriage of Tar bitumen	tonne	1.40	106.13	148.58
	MACHINERY				
073	Road sweeper (Mechanical Broom) @ 1250 sqm. Per hour.	hour	2.80	350.00	980.00
058	Air compressor	hour	2.80	200.00	560.00
061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	2.00	800.00	1600.00
	LABOUR				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				30555.91 W
	Add 1 % Water charges on "W"				305.56
	TOTAL				30861.47 X
	Add GST (multiplying factor 0.1405) on "X"				4336.04
	TOTAL				35197.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				5279.63
	Total				40477.13 Z
	Add Cess @ 1% on "Z"				404.77
	Cost for 3500 sqm.				40881.90
	Cost per Sqm.				11.68
	Say				11.70

16.31.1.2 On bituminous surface @ 0.25kg/sqm

Details of cost for 3500 sqm.

MATERIAL

7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887-1995	tonne	0.875	19000.00	16625.00
2211	Carriage of Tar bitumen	tonne	0.875	106.13	92.86

MACHINERY

073	Road sweeper (Mechanical Broom) @ 1250 sqm. Per hour.	hour	2.80	350.00	980.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
058	Air compressor	hour	2.80	200.00	560.00
061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	2.00	800.00	1600.00
	LABOUR				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				20525.19 W
	Add 1 % Water charges on "W"				205.25
	TOTAL				20730.44 X
	Add GST (multiplying factor 0.1405) on "X"				2912.63
	TOTAL				23643.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				3546.46
	Total				27189.53 Z
	Add Cess @ 1% on "Z"				271.90
	Cost for 3500 sqm.				27461.42
	Cost per Sqm.				7.85
	Say				7.85

16.31.2 With medium setting bitumen emulsion

16.31.2.1 On W.B.M / W.M.M. @ 0.4kg/sqm

Details of cost for 3500 sqm.

MATERIAL

7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	1.40	27909.00	39072.60
2211	Carriage of Tar bitumen	tonne	1.40	106.13	148.58

MACHINERY

073	Road sweeper (Mechanical Broom) @ 1250 sqm. Per hour.	hour	2.80	350.00	980.00
058	Air compressor	hour	2.80	200.00	560.00
061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	2.00	800.00	1600.00

LABOUR

0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	2.00	320.83	641.66

TOTAL 43028.51 W

Add 1 % Water charges on "W" 430.29

TOTAL 43458.79 X

Add GST (multiplying factor 0.1405) on "X" 6105.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				49564.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				7434.71
	Total				56999.47 Z
	Add Cess @ 1% on "Z"				569.99
	Cost for 3500 sqm.				57569.46
	Cost per Sqm.				16.45
	Say				16.45

16.31.2.2 On bituminous surface @ 0.25kg/sqm

Details of cost for 3500 sqm.

MATERIAL

7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	0.875	27909.00	24420.38
2211	Carriage of Tar bitumen	tonne	0.875	106.13	92.86

MACHINERY

073	Road sweeper (Mechanical Broom) @ 1250 sqm. Per hour.	hour	2.80	350.00	980.00
058	Air compressor	hour	2.80	200.00	560.00
061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	2.00	800.00	1600.00

LABOUR

0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	2.00	320.83	641.66

TOTAL 28320.57 W

Add 1 % Water charges on "W" 283.21

TOTAL 28603.77 X

Add GST (multiplying factor 0.1405) on "X" 4018.83

TOTAL 32622.60 Y

Add 15 % Contractor's profit and overheads on "Y" 4893.39

Total 37515.99 Z

Add Cess @ 1% on "Z" 375.16

Cost for 3500 sqm. 37891.15

Cost per Sqm. 10.83

Say 10.85

16.32 2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.32.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt				
	Details of cost for 100 sqm.				
	Asphalt 80/100				
	(i) Hot bitumen @52kg.per cum. of stone chippings 1.8cum. of 13.2mm nominal size chippings.				
	(ii) Hot bitumen @56kg. per cum. of stone chippings 0.90cum. of 11.2mm nominal size chippings.				
	Bitumen :52x1.8+56x0.9=144kg. or 0.144 tonne				
	MATERIAL				
2916	Paving Asphalt VG 10 of approved quality	tonne	0.144	24000.00	3456.00
2211	Carriage of Tar bitumen	tonne	0.144	106.13	15.28
	Solvent 70gms/kg. for 0.144 t = 10.08kg.				
2914	Solvent	kilogram	10.08	25.00	252.00
2342	Carriage of solvent/ Diesel.	quintal	0.10	10.61	1.06
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @1.80cum. per 100 sqm	cum	1.80	1150.00	2070.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @0.90cum. per 100 sqm	cum	0.90	1150.00	1035.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.70	106.13	286.55
	Steam coal for heating bitumen @ 2 quintals per tonne of bitumen = 2x0.144=0.288q				
370	Coal (steam)	quintal	0.288	440.00	126.72
2200	Carriage of steam coal	tonne	0.0288	121.29	3.49
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				
0017	Beldar	day	0.57	320.83	182.87
	(c) For screening and spreading premixed aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	5.00	320.83	1604.15
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(at barrier for night watch and for road roller)				
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.13	800.00	104.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
364	Misc: Wire brush	each	0.11	20.00	2.20
	(with thick wire)				
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				10784.58 W
	Add 1 % Water charges on "W"				107.85
	TOTAL				10892.42 X
	Add GST (multiplying factor 0.1405) on "X"				1530.39
	TOTAL				12422.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				1863.42
	Total				14286.23 Z
	Add Cess @ 1% on "Z"				142.86
	Cost for 100 sqm.				14429.09
	Cost per Sqm.				144.29
	Say				144.30

16.32.2 With paving Asphalt grade VG - 30 with no solvent

Details of cost for 100 sqm. Asphalt 60/70

- (i) Hot bitumen @52kg.per cum. of stonechippings 1.8cum. of 13.2mm nominal size chippings.
(ii) Hot bitumen @56kg. per cum. of stonechippings 0.90cum. of 11.2mm nominal size chippings.
Bitumen :52x1.8+56x0.9=144kg. or 0.144 tonne

MATERIAL

7309	Paving Asphalt VG-30 of approved quality	tonne	0.144	39570.00	5698.08
2211	Carriage of Tar bitumen	tonne	0.144	106.13	15.28
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @1.80cum. per 100sqm.	cum	1.80	1150.00	2070.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @0.90cum. per 100sqm	cum	0.90	1150.00	1035.00
2202	Carriage of Stone aggregate below 40 mm nominal size Steam coal for heating of bitumen @2 quintals per tonne of bitumen =2x0.144=0.288q	cum	2.70	106.13	286.55
370	Coal (steam)	quintal	0.288	440.00	126.72
2200	Carriage of steam coal	tonne	0.0288	121.29	3.49
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				
0017	Beldar	day	0.57	320.83	182.87
	(c) For screening and spreading premixed aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	5.00	320.83	1604.15
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.13	800.00	104.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
364	Misc: Wire brush	each	0.11	20.00	2.20
	(with thick wire)				
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				12773.60 W
	Add 1 % Water charges on "W"				127.74
	TOTAL				12901.33 X
	Add GST (multiplying factor 0.1405) on "X"				1812.64
	TOTAL				14713.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				2207.10
	Total				16921.06 Z
	Add Cess @ 1% on "Z"				169.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost for 100 sqm. 17090.28

Cost per Sqm. 170.90

Say 170.90

16.32.3 With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53

Details of cost for 100 sqm. Asphalt 80/100

(i) Hot bitumen @52kg.per cum. of stonechippings 1.8cum. of 13.2mm nominal size chippings.

(ii) Hot bitumen @56kg. per cum. of stonechippings 0.90cum. of 11.2mm nominal size chippings.

Modified Bitumen CRMB - 55 (Refinery produced) :52x1.8+56x0.9=144kg. or 0.144 tonne

MATERIAL

7739	Modified Bitumen Refinery produced CRMB - 55	tonne	0.144	29995.00	4319.28
2211	Carriage of Tar bitumen	tonne	0.144	106.13	15.28
	Solvent 70gms/kg. for 0.144 t = 10.08kg				
2914	Solvent	kilogram	10.08	25.00	252.00
2342	Carriage of solvent/ Diesel.	quintal	0.10	10.61	1.06
	Stone chippings 13.2mm nominal size @ 1.80cum. per 100sqm.				
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @1.80cum. per 100sqm.	cum	1.80	1150.00	2070.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @0.90cum. per 100sqm	cum	0.90	1150.00	1035.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.70	106.13	286.55
	Steam coal for heating bitumen @ 2 quintals per tonne of bitumen = 2x0.144=0.288q				
370	Coal (steam)	quintal	0.288	440.00	126.72
2200	Carriage of steam coal	tonne	0.0288	121.29	3.49
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				
0017	Beldar	day	0.57	320.83	182.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(c) For screening and spreading premixed aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	5.00	320.83	1604.15
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.13	800.00	104.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
364	Misc: Wire brush	each	0.11	20.00	2.20
	(with thick wire)				
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				11647.86 W
	Add 1 % Water charges on "W"				116.48
	TOTAL				11764.34 X
	Add GST (multiplying factor 0.1405) on "X"				1652.89
	TOTAL				13417.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				2012.58
	Total				15429.81 Z
	Add Cess @ 1% on "Z"				154.30
	Cost for 100 sqm.				15584.11
	Cost per Sqm.				155.84
	Say				155.85
16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).				
16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt				
	Details of cost for 100 sqm. Paving Asphalt 80/100				
	(i) Hot bitumen @52kg.per cum. of stone chippings @2.25cum. of 13.2mm nominal size chippings.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) Hot bitumen @56kg. per cum. of aggregate @1.12cum. of 11.2mm nominal size. Bitumen :52x2.25+56x1.12= 180kg MATERIAL				
2916	Paving Asphalt VG -10 of approved quality	tonne	0.18	24000.00	4320.00
2914	Solvent 0.07x180=12.60kg.	kilo	12.6	25.00	315.00
2211	Carriage of Tar bitumen	gram tonne	0.18	106.13	19.10
2342	Carriage of solvent/ Diesel.	quintal	0.126	10.61	1.34
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @1.80cum. per 100 sqm.	cum	2.25	1150.00	2587.50
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @0.90cum. per 100 sqm	cum	1.12	1150.00	1288.00
2202	Carriage of Stone aggregate below 40 mm nominal size 2.25+1.12=3.37 cum Steam coal for heating of bitumen @2 quintals per tonne of bitumen =2x0.18=0.36q	cum	3.37	106.13	357.66
370	Coal (steam)	quintal	0.36	440.00	158.40
2200	Carriage of steam coal	tonne	0.036	121.29	4.37
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate : (a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				0.00
0017	Beldar	day	0.71	320.83	227.79
	(c) For screening and spreading premixed aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	6.25	320.83	2005.19
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.15	800.00	120.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
	Misc:				
364	Wire brush	each	0.11	20.00	2.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(with thick wire)				
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				13051.79 W
	Add 1 % Water charges on "W"				130.52
	TOTAL				13182.31 X
	Add GST (multiplying factor 0.1405) on "X"				1852.11
	TOTAL				15034.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				2255.16
	Total				17289.58 Z
	Add Cess @ 1% on "Z"				172.90
	Cost for 100 sqm.				17462.48
	Cost per Sqm.				174.62
	Say				174.60

16.33.2 With paving Asphalt grade VG - 30 with no solvent

Details of cost for 100 sqm. Paving Asphalt
60/70

(i) Hot bitumen @52kg.per cum. of
stonechippings @2.25cum. of 13.2mm nominal
size

(ii) Hot bitumen @56kg. per cum. of
stoneaggregate@1.12cum. of 11.2mm nominal
size size Bitumen :52x2.25+56x0.09= 180kg or
0.180 tonne
MATERIAL

7309	Paving Asphalt VG-30 of approved quality	tonne	0.18	39570.00	7122.60
2211	Carriage of Tar bitumen	tonne	0.18	106.13	19.10
2910	Stone chippings / screenings 12.5/ 13.2 mm nominal size @2.25cum. per 100sqm	cum	2.25	1150.00	2587.50
2911	Stone chippings / screenings 10/ 11.2 mm nominal size @1.12cum. per 100sqm	cum	1.120	1150.00	1288.00
2202	Carriage of Stone aggregate below 40 mm nominal size 2.25+1.12=3.37 cum.	cum	3.37	106.13	357.66
370	Coal (steam)	quintal	0.360	440.00	158.40
2200	Carriage of steam coal	tonne	0.0360	121.29	4.37
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				
0017	Beldar	day	0.71	320.83	227.79
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	6.25	320.83	2005.19
	$1.05 \times 0.18 / 0.267 = 0.71$ Nos.				
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.15	800.00	120.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
	Misc:				
364	Wire brush	each	0.11	20.00	2.20
	(with thick wire)				
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				15538.05 W
	Add 1 % Water charges on "W"				155.38
	TOTAL				15693.43 X
	Add GST (multiplying factor 0.1405) on "X"				2204.93
	TOTAL				17898.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				2684.75
	Total				20583.11 Z
	Add Cess @ 1% on "Z"				205.83
	Cost for 100 sqm.				20788.94
	Cost per Sqm.				207.89
	Say				207.90

16.33.3 With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53

Details of cost for 100 sqm.

MATERIAL

Paving Asphalt 80/100

- (i) Hot bitumen @52kg.per cum. of
stonechippings @2.25cum. of 13.2mm nominal
size chippings.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) Hot bitumen @56kg. per cum. of aggregate @1.12cum. of 11.2mm nominal size. 52x2.25+56x1.12=180kg				
7739	Modified Bitumen Refinery produced	tonne	0.18	29995.00	5399.10
	CRMB - 55				
	Solvent 0.07x180=12.60kg				
2914	Solvent	kilogra	12.6	25.00	315.00
2211	Carriage of Tar bitumen	tonne	0.18	106.13	19.10
2342	Carriage of solvent/ Diesel.	quintal	0.126	10.61	1.34
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size @2.25 cum. per 100sqm	cum	2.25	1150.00	2587.50
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size @1.12 cum. per 100sqm	cum	1.12	1150.00	1288.00
2202	Carriage of Stone aggregate below 40 mm nominal size 2.25+1.12=3.37 cum.+ Steam coal for heating of bitumen @2 quintals per tonne of bitumen =2x0.18=0.36q	cum	3.37	106.13	357.66
370	Coal (steam)	quintal	0.36	440.00	158.40
2200	Carriage of steam coal	tonne	0.036	121.29	4.37
	Labour for cleaning the road surface, heating and spraying bitumen and aggregate : (a) For cleaning :				
0028	Mate	day	0.08	320.83	25.67
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen:				
0017	Beldar	day	0.71	320.83	227.79
	(c) For screening and spreading premixed aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	6.25	320.83	2005.19
	(d) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.15	800.00	120.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.04	3500.00	140.00
364	Misc: Wire brush	each	0.11	20.00	2.20
	(with thick wire)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
365	Soft brush	each	0.32	20.00	6.40
9999	Brooms and gunny bags	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				14130.89 W
	Add 1 % Water charges on "W"				141.31
	TOTAL				14272.20 X
	Add GST (multiplying factor 0.1405) on "X"				2005.24
	TOTAL				16277.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				2441.62
	Total				18719.06 Z
	Add Cess @ 1% on "Z"				187.19
	Cost for 100 sqm.				18906.25
	Cost per Sqm.				189.06
	Say				189.05
16.34	2 cm premix carpet surfacing with 2.4 cum of stone chippings 11.2 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen content) complying with IS : 8887, using 96 kg per cum of chippings, including consolidation with road roller of 6 to 9 tonne capacity etc. complete.				
	Details of cost for 100 sqm.				
	MATERIAL				
	Bitumen emulsion M.S. @ 96kg per cum. of aggregate 96x2.4=230kg =0.230t				
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	0.23	27909.00	6419.07
2211	Carriage of Tar bitumen	tonne	0.23	106.13	24.41
2910	Stone chippings/ screenings 10/ 11.2 mm nominal size @ 2.4cum. per 100 sqm	cum	2.40	1150.00	2760.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.40	106.13	254.71
	LABOUR				
	(a) For mixing and spreading premix aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	3.54	320.83	1135.74
	(b) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart	day	0.04	3500.00	140.00
9999	Sundries	L.S.	9.49	2.00	18.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				11295.27 W
	Add 1 % Water charges on "W"				112.95
	TOTAL				11408.22 X
	Add GST (multiplying factor 0.1405) on "X"				1602.85
	TOTAL				13011.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				1951.66
	Total				14962.73 Z
	Add Cess @ 1% on "Z"				149.63
	Cost for 100 sqm.				15112.36
	Cost per Sqm.				151.12
	Say				151.10
16.35	2.5 cm premix carpet surfacing with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS : 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete .				
	Details of cost for 100 sqm.				
	MATERIAL				
	Bitumen emulsion M.S. @ 96kg per cum. of aggregate 96x3 = 288 kg = 0.288 t				
7742	Bitumen emulsion medium setting (M.S.) confirming to IS : 8887-1995	tonne	0.288	27909.000	8037.79
2211	Carriage of Tar bitumen	tonne	0.288	106.130	30.57
2910	Stone chippings/ screenings 10/ 11.2 mm nominal size @ 3.00 cum. per 100 sqm	cum	3.00	1150.000	3450.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	3.00	106.130	318.39
	LABOUR				
	(a) For mixing and spreading premix aggregate :				
0030	Mistry	day	0.19	476.00	90.44
0017	Beldar	day	4.10	320.83	1315.40
	(b) Consolidation Charges				
0016	Chowkidar	day	0.27	320.83	86.62
0011	Bhisti	day	0.11	320.83	35.29
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.11	3000.00	330.00
9999	Sundries	L.S.	9.49	2.00	18.98
	TOTAL				13713.49 W
	Add 1 % Water charges on "W"				137.13
	TOTAL				13850.62 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				1946.01
	TOTAL				15796.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				2369.49
	Total				18166.13 Z
	Add Cess @ 1% on "Z"				181.66
	Cost for 100 sqm.				18347.79
	Cost per Sqm.				183.48
	Say				183.50

16.36 Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :

16.36.1 For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.

Details of cost for 370 sqm.

MATERIAL

Taking stone aggregate 40mm = 45%

20mm = 44%

11.2mm = 8%

Stone dust = 3%

293	Stone Aggregate (Single size) : 40 mm nominal size	cum	9.99	1300.00	12987.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	9.77	1350.00	13189.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1.78	1350.00	2403.00
1159	Stone dust	cum	0.60	1100.00	660.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	2.33	1350.00	3145.50
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	2.66	1350.00	3591.00
1159	Stone dust	cum	0.56	1100.00	616.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	9.99	115.36	1152.43
2202	Carriage of Stone aggregate below 40 mm nominal size i.e. 20mm	cum	12.1	106.13	1284.17
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	4.44	106.13	471.22
2267	Carriage of Stone dust	cum	1.16	106.13	123.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2916	Paving Asphalt VG -10 of approved quality @ 50kg/10 sqm.	tonne	1.85	24000.00	44400.00
2211	Carriage of Tar bitumen (B) Labour:	tonne	1.85	106.13	196.34
0017	Beldar	day	16.67	320.83	5348.24
	for spreading stone metal				
0017	Beldar for hand packing	day	5.33	320.83	1710.02
0017	Beldar dry rolling	day	2.67	320.83	856.62
0017	Beldar	day	1.33	320.83	426.70
	Bajri spreader				
0036	Sprayer (for bitumen, tar etc.)	day	0.67	320.83	214.96
0017	Beldar	day	1.33	320.83	426.70
	for spreading key aggregate				
0017	Beldar	day	6.67	320.83	2139.94
	for spraying bitumen				
0017	Beldar of power roller	day	0.67	320.83	214.96
0028	Mate	day	1.77	320.83	567.87
	(C) Machinery :				
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.45	800.00	360.00
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.61	3000.00	1830.00
9999	Misc. items as spray nozzle, joint paper, coconut oil, country soap etc.	L.S.	351	2.00	702.00
	TOTAL				99017.28 W
	Add 1 % Water charges on "W"				990.17
	TOTAL				100007.45 X
	Add GST (multiplying factor 0.1405) on "X"				14051.05
	TOTAL				114058.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				17108.77
	Total				131167.27 Z
	Add Cess @ 1% on "Z"				1311.67
	Cost for 370 Sqm.				132478.94
	Cost per sqm.				358.05
	Say				358.05

16.36.2 For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.

Details of cost for 300 sqm.

MATERIAL

Taking output as 300 sqm. for single layer.

Coarse agg. = $300/10 \times 0.90 = 27$ cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Key agg = 300/10x0.18 = 5.4 cum. Bitumen = 300/10x68 = 2.04 t.				
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	8.10	115.36	934.41
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	8.10	1000.00	8100.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	14.58	1350.00	19683.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	4.32	1350.00	5832.00
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	2.05	1350.00	2767.50
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	2.57	1350.00	3469.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.81	1350.00	1093.50
2916	Paving Asphalt VG -10 of approved quality	tonne	2.04	24000.00	48960.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	24.33	106.13	2582.14
2211	Carriage of Tar bitumen	tonne	2.04	106.13	216.51
	LABOUR				
0017	Beldar for spreading stone metal	day	25.00	320.83	8020.75
0017	Beldar for hand packing	day	8.00	320.83	2566.64
0017	Beldar dry rolling	day	4.00	320.83	1283.32
0017	Beldar /Bajri spreader	day	2.00	320.83	641.66
0036	Sprayer (for bitumen, tar etc.)	day	1.00	320.83	320.83
0017	Beldar for spreading key aggregate	day	2.00	320.83	641.66
0017	Beldar for spraying bitumen	day	10.00	320.83	3208.30
0017	Beldar road roller	day	1.00	320.83	320.83
0028	Mate	day	2.65	320.83	850.20
	MACHINERY				
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.50	800.00	400.00
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.75	3000.00	2250.00
9999	Misc. items as spray nozzle, joint paper, coconut oil, country soap etc.	L.S.	429	2.00	858.00
	TOTAL				115000.75 W
	Add 1 % Water charges on "W"				1150.01
	TOTAL				116150.75 X
	Add GST (multiplying factor 0.1405) on "X"				16319.18
	TOTAL				132469.93 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				19870.49
	Total				152340.42 Z
	Add Cess @ 1% on "Z"				1523.40
	Cost for 300 Sqm.				153863.83
	Cost per sqm.				512.88
	Say				512.90

16.37 Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).

16.37.1 25 mm thick

Details of cost for surface area of 17.40 sqm
for single layer of 25 mm finished thickness.
MATERIAL

Taking wearing coat as 1 tonne and density as
2.3 gm/c.c Volume of bitumen mastic =
 $1000/2300 = 0.435$ cum surface area =
 $0.435/0.025 = 17.4$ sqm.

(i) Bitumen of penetration 85/25 @ 10.2% by
weight of mix

313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.102	34000.00	3468.00

2211	Carriage of Tar bitumen	tonne	0.102	106.13	10.83

(ii) Weight of coarse aggregate @ 40% (1000 -
150) x 40/100 = 340 kg. Stone aggregate :
 $340/43.38 \times 0.0283 = 0.222$ cum.

295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.02	1350.00	27.00

296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.202	1350.00	272.70

(iii) Weight of fine aggregate @ 15% 850
x15/100 = 127.5 kg., volume of fine aggregate:
 $127.5/43.103 \times 0.0283 = 0.083$ cum

1159	Stone dust	cum	0.083	1100.00	91.30

(iv) Weight of lime stone dust @ 45% (850340-
127.5) = 382.50 kg., Volume of lime stone dust
 $382.50/2200 = 0.174$ cum.

784	Marble dust/ powder	cum	0.174	1130.00	196.62

(v) Precoated stone chipping for surface finish:
Volume of chips @ 0.005 cum/10
sqm = $17.4 \times 0.005/10 = 0.0087$ cum say
0.009 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
297	Stone Aggregate (Single size) : 10 mm nominal size Bitumen for precoated stone chipping @ 2% = $0.009 \times 1600 \times 2 / 100 = 0.288$ say 0.30 kg.	cum	0.009	1350.00	12.15
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0003	34000.00	10.20
2211	Carriage of Tar bitumen	tonne	0.0003	106.13	0.03
2202	Carriage of Stone aggregate below 40 mm nominal size ($0.222 + 0.009$) = 0.231 cum.	cum	0.231	106.13	24.52
2267	Carriage of Stone dust	cum	0.083	106.13	8.81
2208	Carriage of Lime	cum	0.174	106.13	18.47
LABOUR					
0037	Skilled Beldar (for floor rubbing etc.)	day	1.50	320.83	481.25
0030	Mistry	day	0.50	476.00	238.00
0036	Sprayer (for bitumen, tar etc.)	day	3.50	320.83	1122.91
0037	Skilled Beldar (for floor rubbing etc.)	day	0.25	320.83	80.21
0028	Mate	day	0.50	320.83	160.42
016	Mastic Cooker	day	0.50	750.00	375.00
9999	sundries (Sealing of joints, placing angles, wastage materials)	L.S.	153.27	2.00	306.54
Total					6904.93 W
Add 1 % Water charges on "W"					69.05
TOTAL					6973.98 X
Add GST (multiplying factor 0.1405) on "X"					979.84
TOTAL					7953.82 Y
Add 15 % Contractor's profit and overheads on "Y"					1193.07
Total					9146.90 Z
Add Cess @ 1% on "Z"					91.47
Cost for 17.40 sqm					9238.37
Cost per sqm					530.94
Say					530.95

16.37.2 40 mm thick

Details of cost for surface area of 10.875sqm for single layer of 25 mm finished thickness.
MATERIAL

Taking wearing coat as 1 tonne and density as 2.3 gm/c.c Volume of bitumen mastic = $1000/2300 = 0.435$ cum surface area = $0.435/0.040 = 10.875$ sam.

313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.102	34000.00	3468.00
2211	Carriage of Tar bitumen	tonne	0.102	106.13	10.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) Weight of coarse aggregate @ 40% (1000 - 150) x 40/100 = 340 kg. Stone aggregate : 340/43.38x0.0283 = 0.222 cum.				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.02	1350.00	27.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.202	1350.00	272.70
	(iii) Weight of fine aggregate @ 15% 850 x15/100 = 127.5 kg., volume of fine aggregate: 127.5/43.103x0.0283 =0.083 cum				
1159	Stone dust	cum	0.083	1100.00	91.30
	(iv) Weight of lime stone dust @ 45% (850-340-127.5) = 382.50 kg., Volume of lime stone dust 382.50/2200 =0.174 cum.				
784	Marble dust/ powder	cum	0.174	1130.00	196.62
	(v) Precoated stone chipping for surface finish: Volume of chips @ 0.005 cum/10 sqm=17.4x0.005/10 = 0.0087 cum say 0.009 cum				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.009	1350.00	12.15
	Bitumen for precoated stone chipping @ 2% =0.009x1600x2/100= 0.288 say 0.30 kg.				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0003	34000.00	10.20
2211	Carriage of Tar bitumen	tonne	0.0003	106.13	0.03
2202	Carriage of Stone aggregate below 40 mm nominal size (0.222 + 0.009) =0.231 cum	cum	0.231	106.13	24.52
2267	Carriage of Stone dust	cum	0.083	106.13	8.81
2208	Carriage of Lime for mastic cooker (Taking capacity of cooker as one tonne)	cum	0.174	106.13	18.47
	LABOUR				
0037	Skilled Beldar (for floor rubbing etc.)	day	1.50	320.83	481.25
0030	Mistry	day	0.50	476.00	238.00
0036	Sprayer (for bitumen, tar etc.)	day	3.50	320.83	1122.91
0037	Skilled Beldar (for floor rubbing etc.)	day	0.25	320.83	80.21
0028	Mate	day	0.50	320.83	160.42
016	Mastic Cooker	day	0.50	750.00	375.00
9999	sundries (Sealing of joints, placing angles, wastage materials)	L.S.	153.27	2.00	306.54
					6904.93 W
	Add 1 % Water charges on "W"				69.05
	TOTAL				6973.98 X
	Add GST (multiplying factor 0.1405) on "X"				979.84
	TOTAL				7953.82 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				1193.07
	Total				9146.90 Z
	Add Cess @ 1% on "Z"				91.47
	Cost for 10.875 sqm				9238.37
	Cost per sqm				849.51
	Say				849.50
16.38	2.5 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand @ 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :				
16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt				
	Details of cost for 100sqm.				
	80/100 bitumen @56kg. per cum. of aggregate				
	and 128kg. per cum. of sand:				
	$56 \times 1.65 = 92.4 \text{ kg.} = 0.092 \text{ t} +$				
	$128 \times 1.65 = 211.2 \text{ kg} = 0.211 \text{ t}$				
	MATERIAL				
2916	Paving Asphalt VG -10 of approved quality	tonne	0.303	24000.00	7272.00
2914	Solvent 0.070 kg. x 303 kg. = 21.21kg	kilogram	21.21	25.00	530.25
2211	Carriage of Tar bitumen	tonne	0.303	106.13	32.16
2342	Carriage of solvent/ Diesel.	quintal	0.212	10.61	2.25
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	0.99	1150.00	1138.50
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.66	1150.00	759.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.65	106.13	175.11
370	Coal (steam)	quintal	0.606	440.00	266.64
2200	Carriage of steam coal	tonne	0.0606	121.29	7.35
982	Coarse sand	cum	1.65	1350.00	2227.50
2203	Carriage of Coarse sand	cum	1.65	106.13	175.11
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.19	320.83	381.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.24	476.00	114.24
0017	Beldar	day	6.12	320.83	1963.48
	(d) Consolidation charges :				0.00
0016	Chowkidar	day	0.34	320.83	109.08
	(at barriers for night watch and for road roller)				
0011	Bhisti	day	0.13	320.83	41.71
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.13	3000.00	390.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.21	800.00	168.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.05	3500.00	175.00
	Misc : Wire brush (with thick wire)				
364	Wire brush	each	0.13	20.00	2.60
365	Soft brush	each	0.4	20.00	8.00
9999	Brooms and gunny bags	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				16921.67 W
	Add 1 % Water charges on "W"				169.22
	TOTAL				17090.89 X
	Add GST (multiplying factor 0.1405) on "X"				2401.27
	TOTAL				19492.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				2923.82
	Total				22415.98 Z
	Add Cess @ 1% on "Z"				224.16
	Cost for 100 sqm.				22640.14
	Cost per sqm.				226.40
	Say				226.40

16.38.2 With paving Asphalt grade VG - 30

Details of cost for 100sqm. 60/70 bitumen @56kg. per cum. of aggregate and 128kg. per cum. of sand:

$56 \times 1.65 = 92.4\text{kg.} = 0.092\text{t} +$

$128 \times 1.65 = 211.2\text{kg} = 0.211\text{t}$

Total= 0.303t

MATERIAL

7309	Paving Asphalt VG-30 of approved quality	tonne	0.303	39570.00	11989.71
2211	Carriage of Tar bitumen	tonne	0.303	106.13	32.16
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	0.99	1150.00	1138.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.66	1150.00	759.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.65	106.13	175.11
	Steam coal for heating bitumen @ 2 quintals per tonne of bitumen = $2 \times 0.303 = 0.606q$				
370	Coal (steam)	quintal	0.606	440.00	266.64
2200	Carriage of steam coal	tonne	0.0606	121.29	7.35
982	Coarse sand	cum	1.65	1350.00	2227.50
2203	Carriage of Coarse sand	cum	1.65	106.13	175.11
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.19	320.83	381.79
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.24	476.00	114.24
0017	Beldar	day	6.12	320.83	1963.48
	(d) Consolidation charges :				
0016	Chowkidar	day	0.34	320.83	109.08
	(at barriers for night watch and for road roller)				
0011	Bhisti	day	0.13	320.83	41.71
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.13	3000.00	390.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.21	800.00	168.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.05	3500.00	175.00
	Misc :				
364	Wire brush	each	0.13	20.00	2.60
	(with thick wire)				
365	Soft brush	each	0.40	20.00	8.00
9999	Brooms and gunny bags	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				21106.88 W
	Add 1 % Water charges on "W"				211.07
	TOTAL				21317.95 X
	Add GST (multiplying factor 0.1405) on "X"				2995.17
	TOTAL				24313.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				3646.97
	Total				27960.09 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				279.60
	Cost for 100 sqm.				28239.69
	Cost per sqm.				282.40
	Say				282.40
16.38.3 With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53					
	Details of cost for 100sqm.				
	MATERIAL				
7739	Modified Bitumen Refinery produced CRMB - 55 @56kg. per cum. of aggregate and 128kg. per cum. of sand: 56x1.65=92.4kg. = 0.092t + 128x1.65 = 211.2kg = 0.211t Total = 0.303 t	tonne	0.303	29995.00	9088.49
2914	Solvent 0.070 kg. x 303 kg. = 21.21kg	kilogram	21.21	25.00	530.25
2211	Carriage of Tar bitumen	tonne	0.303	106.13	32.16
2342	Carriage of solvent/ Diesel.	quintal	0.212	10.61	2.25
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	0.99	1150.00	1138.50
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	0.66	1150.00	759.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	1.65	106.13	175.11
370	Coal (steam)	quintal	0.606	440.00	266.64
2200	Carriage of steam coal	tonne	0.0606	121.29	7.35
982	Coarse sand	cum	1.65	1350.00	2227.50
2203	Carriage of Coarse sand	cum	1.65	106.13	175.11
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.19	320.83	381.79
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.24	476.00	114.24
0017	Beldar	day	6.12	320.83	1963.48
	(d) Consolidation charges :				
0016	Chowkidar	day	0.34	320.83	109.08
0011	Bhisti	day	0.13	320.83	41.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.13	3000.00	390.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.21	800.00	168.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.05	3500.00	175.00
364	Misc : Wire brush (with thick wire)	each	0.13	20.00	2.60
365	Soft brush	each	0.40	20.00	8.00
9999	Brooms and gunny bags	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.97	2.00	17.94
	TOTAL				18738.16 W
	Add 1 % Water charges on "W"				187.38
	TOTAL				18925.54 X
	Add GST (multiplying factor 0.1405) on "X"				2659.04
	TOTAL				21584.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				3237.69
	Total				24822.26 Z
	Add Cess @ 1% on "Z"				248.22
	Cost for 100 sqm.				25070.48
	Cost per sqm.				250.70
	Say				250.70
16.39	4 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 2.60 cum per 100 sqm and coarse sand @ 2.60 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :				
16.39.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt				
	Details of cost for 100sqm.				
	MATERIAL				
2916	Paving Asphalt VG -10 of approved quality @56kg. per cum. of aggregate and 128kg. per cum. of sand: 56x2.60=145.6kg. = 0.146t + 128x2.60 = 332.8kg = 0.333t Total = 0.479 t	tonne	0.479	24000.00	11496.00
2914	Solvent 0.70kg.x479=33.53kg	kilo gram	33.53	25.00	838.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2342	Carriage of solvent/ Diesel.	quintal	0.335	10.61	3.56
2211	Carriage of Tar bitumen	tonne	0.479	106.13	50.84
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1.56	1150.00	1794.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1.04	1150.00	1196.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.60	106.13	275.94
982	Coarse sand	cum	2.60	1350.00	3510.00
2203	Carriage of Coarse sand	cum	2.60	106.13	275.94
370	Steam coal for heating bitumen @ 2 qunitals per tonne of bitumen = 2x0.479=0.958q Coal (steam)	quintal	0.958	440.00	421.52
2200	Carriage of steam coal	tonne	0.0958	121.29	11.62
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.88	320.83	603.16
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.31	476.00	147.56
0017	Beldar	day	9.46	320.83	3035.05
	(d) Consolidation charges :				
0016	Chowkidar	day	0.45	320.83	144.37
0011	Bhisti	day	0.18	320.83	57.75
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.18	3000.00	540.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.30	800.00	240.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.03	3500.00	105.00
364	Misc : Wire brush	each	0.09	20.00	1.80
	(with thick wire)				
365	Soft brush	each	0.27	20.00	5.40
9999	Brooms and gunny bags	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	16.12	2.00	32.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				25746.31 W
	Add 1 % Water charges on "W"				257.46
	TOTAL				26003.77 X
	Add GST (multiplying factor 0.1405) on "X"				3653.53
	TOTAL				29657.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				4448.60
	Total				34105.90 Z
	Add Cess @ 1% on "Z"				341.06
	Cost for 100 sqm.				34446.96
	Cost per sqm.				344.47
	Say				344.45

16.39.2 With paving asphalt grade VG - 30 with no solvent

Details of cost for 100sqm.

MATERIAL

7309	Paving Asphalt VG-30 of approved quality @56kg. per cum. of aggregate and 128kg. per cum. of sand: 56x2.60=145.6kg. = 0.146t + 128x2.60 = 332.8kg = 0.333t Total = 0.479 t	tonne	0.479	39570.00	18954.03
2211	Carriage of Tar bitumen	tonne	0.479	106.13	50.84
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1.56	1150.00	1794.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1.04	1150.00	1196.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.60	106.13	275.94
982	Coarse sand	cum	2.60	1350.00	3510.00
2203	Carriage of Coarse sand	cum	2.60	106.13	275.94
370	Steam coal for heating bitumen @ 2 qunitals per tonne of bitumen =2x0.479=0.958 qtl Coal (steam)	quintal	0.958	440.00	421.52
2200	Carriage of steam coal	tonne	0.0958	121.29	11.62
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate : (a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.88	320.83	603.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.31	476.00	147.56
0017	Beldar	day	9.46	320.83	3035.05
	(d) Consolidation charges :				
0016	Chowkidar	day	0.45	320.83	144.37
0011	Bhisti	day	0.18	320.83	57.75
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.18	3000.00	540.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.30	800.00	240.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.03	3500.00	105.00
364	Brushes etc. for cleaning :- Wire brush	each	0.09	20.00	1.80
	(with thick wire)				
365	Soft brush	each	0.27	20.00	5.40
9999	Brooms and gunny bags	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				32362.53 W
	Add 1 % Water charges on "W"				323.63
	TOTAL				32686.16 X
	Add GST (multiplying factor 0.1405) on "X"				4592.41
	TOTAL				37278.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				5591.78
	Total				42870.35 Z
	Add Cess @ 1% on "Z"				428.70
	Cost for 100 sqm.				43299.05
	Cost per sqm.				432.99
	Say				433.00

16.39.3 With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53

Details of cost for 100sqm.

MATERIAL

7739	Modified Bitumen Refinery produced CRMB - 55 @56kg. per cum. of aggregate and 128kg. per cum. of sand: 56x2.60=145.6kg. = 0.146t + 128x2.60 = 332.8kg = 0.333t Total = 0.479 tonne	tonne	0.479	29995.00	14367.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2914	Solvent 0.70kg.x479=33.53kg.	kilogram	33.53	25.00	838.25
2342	Carriage of solvent/ Diesel.	quintal	0.335	10.613006	3.56
2211	Carriage of Tar bitumen	tonne	0.479	106.13006	50.84
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1.56	1150.00	1794.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1.04	1150.00	1196.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	2.60	106.13	275.94
982	Coarse sand	cum	2.60	1350.00	3510.00
2203	Carriage of Coarse sand	cum	2.60	106.13	275.94
370	Steam coal for heating bitumen @ 2 quintals per tonne of bitumen = 2x0.479=0.958q Coal (steam)	quintal	0.958	440.00	421.52
2200	Carriage of steam coal	tonne	0.0958	121.29	11.62
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate : (a) For cleaning :				
0028	Mate	day	0.16	320.83	51.33
0017	Beldar	day	1.40	320.83	449.16
0018	Coolie	day	1.40	320.83	449.16
	(b) For heating bitumen :				
0017	Beldar	day	1.88	320.83	603.16
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0030	Mistry	day	0.31	476.00	147.56
0017	Beldar	day	9.46	320.83	3035.05
	(d) Consolidation charges :				
0016	Chowkidar	day	0.45	320.83	144.37
0011	Bhisti	day	0.18	320.83	57.75
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.18	3000.00	540.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.30	800.00	240.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.03	3500.00	105.00
364	Misc : Wire brush (with thick wire)	each	0.09	20.00	1.80
365	Soft brush	each	0.27	20.00	5.40
9999	Brooms and gunny bags	L.S.	5.33	2.00	10.66
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				28617.91 W
	Add 1 % Water charges on "W"				286.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				28904.09 X
	Add GST (multiplying factor 0.1405) on "X"				4061.03
	TOTAL				32965.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				4944.77
	Total				37909.89 Z
	Add Cess @ 1% on "Z"				379.10
	Cost for 100 sqm.				38288.99
	Cost per sqm.				382.89
	Say				382.90
16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.				
	Details of cost for 100sqm.				
	MATERIAL				
2916	Paving Asphalt VG -10 of approved quality @ 128kg/cum. of sand 128x0.60 = 76.80kg. = 0.0768 m.t	tonne	0.0768	24000.00	1843.20
2211	Carriage of Tar bitumen	tonne	0.0768	106.13	8.15
982	Coarse sand	cum	0.60	1350.00	810.00
2203	Carriage of Coarse sand	cum	0.60	106.13	63.68
	Steam coal for heating bitumen @ 2 qunitals per tonne of bitumen =2x0.768=0.1.536 qtl				
370	Coal (steam)	quintal	1.536	440.00	675.84
2200	Carriage of steam coal	tonne	0.1536	121.29	18.63
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For cleaning :				
0028	Mate	day	0.06	320.83	19.25
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.97	320.83	311.21
	(b) For heating bitumen :				
0017	Beldar	day	0.30	320.83	96.25
	0.38/96x76.8				
	(c) For cleaning, mixing and spreading pre-mix aggregate :				
0017	Beldar	day	1.11	320.83	356.12
	11.39/0.75x0.60				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0030	Mistry	day	0.05	476.00	23.80
	0.06/0.75x0.60				
	(d) Miscellaneous :				
0016	Chowkidar	day	0.15	320.83	48.12
0011	Bhisti	day	0.06	320.83	19.25
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.06	3000.00	180.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	0.05	800.00	40.00
023	Hot Bitumen mixer 0.5 cum i/c hand cart (e)	day	0.01	3500.00	35.00
364	Misc : Wire brush	each	0.05	20.00	1.00
	(with thick wire)				
365	Soft brush	each	0.12	20.00	2.40
9999	Sundries	L.S.	18.2	2.00	36.40
	TOTAL				4745.51 W
	Add 1 % Water charges on "W"				47.46
	TOTAL				4792.96 X
	Add GST (multiplying factor 0.1405) on "X"				673.41
	TOTAL				5466.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				819.96
	Total				6286.33 Z
	Add Cess @ 1% on "Z"				62.86
	Cost for 100 sqm.				6349.19
	Cost per sqm.				63.49
	Say				63.50
16.41	16.41 Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.				
	Details of cost for 100sqm.				
	MATERIAL				
2916	Paving Asphalt VG -10 of approved quality	tonne	0.098	24000.00	2352.00
2211	Carriage of Tar bitumen	tonne	0.098	106.13	10.40
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.90	1400.00	1260.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.90	106.13	95.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Steam coal for heating bitumen @ 2 quintals per tonne of bitumen =2x0.0.98=1.96 qtl				
370	Coal (steam)	quintal	1.96	440.00	862.40
2200	Carriage of steam coal	tonne	0.196	121.29	23.77
	Labour for cleaning road surface, heating bitumen mixing and spreading aggregate :				
	(a) For heating and spraying bitumen :				
0030	Mistry	day	0.04	476.00	19.04
0036	Sprayer (for bitumen, tar etc.)	day	0.06	320.83	19.25
0017	Beldar	day	0.69	320.83	221.37
	(b) For cleaning :				
0028	Mate	day	0.11	320.83	35.29
0017	Beldar	day	1.4	320.83	449.16
0018	Coolie	day	1.4	320.83	449.16
	(c) For screening and spraying aggregate :				
0028	Mate	day	0.05	320.83	16.04
0017	Beldar	day	0.51	320.83	163.62
	(d) Misc :				
0016	Chowkidar	day	0.15	320.83	48.12
0011	Bhisti	day	0.06	320.83	19.25
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.06	3000.00	180.00
007	Hire charges of Coaltar Sprayer	day	0.06	300.00	18.00
001	Hire charges of Coaltar Boiler 900 to 1400 litres (e) Misc :	day	0.06	800.00	48.00
364	Wire brush	each	0.05	20.00	1.00
	(with thick wire)				
365	Soft brush	each	0.12	20.00	2.40
9999	Sundries	L.S.	18.2	2.00	36.40
9999	Brooms and gunny bags	L.S.	2.73	2.00	5.46
	TOTAL				6335.67 W
	Add 1 % Water charges on "W"				63.36
	TOTAL				6399.02 X
	Add GST (multiplying factor 0.1405) on "X"				899.06
	TOTAL				7298.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				1094.71
	Total				8392.80 Z
	Add Cess @ 1% on "Z"				83.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 100 sqm.				8476.73
	Cost per sqm.				84.77
	Say				84.75
16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.				
	Details of cost for 1.00 cum.				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.52	1300.00	676.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1350.00	297.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1350.00	148.50
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.52	115.36	59.99
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.33	106.13	35.02
982	Coarse sand	cum	0.445	1350.00	600.75
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23
367	Portland Cement (OPC-43 grade)	tonne	0.32	4940.00	1580.80
2209	Carriage of Cement	tonne	0.32	94.34	30.19
	LABOUR				
0040	Mason (average)	day	0.10	374.50	37.45
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.7	320.83	224.58
	MACHINERY				
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.077	800.00	61.60
012	Vibrator (Needle type 40 mm)	day	0.07	370.00	25.90
9999	Sundries	L.S.	26.00	2.00	52.00
	Side shuttering				
	Taking the slab to be 5cm thick and width to be 6 metre, length of road 27 metre = $9.90/24.30 = 0.407$ sqm				
5.9.1	Rate as per item no 5.9.1 of	sqm	0.407	216.45	88.10 A
	SH : Reinforced cement concrete work				
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				<u>4490.92 W</u>

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"		4402.82		44.03
	TOTAL				4534.94 X
	Add GST (multiplying factor 0.1405) on "X-A"		4446.85		624.78
	TOTAL				5159.73 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		5071.63		760.74
	Total				5920.47 Z
	Add Cess @ 1% on "Z-A"		5832.37		58.32
	Cost for 1 cum.				5978.79
	Say				5978.80

16.43 Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-incharge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).

Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.

16.43.1 Cement concrete prepared with batch mixing machine

Details of cost for 1 cum.

MATERIAL

367	Portland Cement (OPC-43 grade)	tonne	0.34	4940.00	1679.60
2209	Carriage of Cement	tonne	0.34	94.34	32.07
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.52	1300.00	676.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1350.00	297.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1350.00	148.50
982	Coarse sand	cum	0.445	1350.00	600.75
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.52	115.36	59.99
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.33	106.13	35.02
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR :- FOR MIXING AND LAYING				0.00
0017	Beldar	day	2	320.83	641.66
0011	Bhisti	day	0.27	320.83	86.62
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0028	Mate	day	0.04	320.83	12.83
	For compaction by vibrator				
0040	Mason (average)	day	0.07	374.50	26.22
0017	Beldar	day	0.07	320.83	22.46
	MACHINERY				
004	Production cost of concrete by batch mix plant. (Assuming 25 cum. per day)	cum	1.00	350.00	350.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
021	Pin vibrator (SHP) with 50 cum. output per day	day	0.025	325.00	8.13
022	Surface Vibrator with 25 cum. output per day	day	0.05	400.00	20.00
16.43B	Add for steel form work Rate as per Item Number 16.43B of SH: Road work	cum	1.00	472.30	472.30
9999	Cutting and making joints	L.S.	50.00	2.00	100.00
	TOTAL				5568.90 W
	Add 1 % Water charges on "W"				55.69
	TOTAL				5624.59 X
	Add GST (multiplying factor 0.1405) on "X"				790.26
	TOTAL				6414.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				962.23
	Total				7377.08 Z
	Add Cess @ 1% on "Z"				73.77
	Cost per cum.				7450.85
	Say				7450.85
16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer				
	Details of cost for 1 cum.				
	MATERIAL				
367	Portland Cement (OPC-43 grade)	tonne	0.34	4940.00	1679.60
2209	Carriage of Cement	tonne	0.34	94.34	32.07
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.52	1300.00	676.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1350.00	297.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1350.00	148.50
982	Coarse sand	cum	0.445	1350.00	600.75
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.52	115.36	59.99
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.33	106.13	35.02
2203	Carriage of Coarse sand	cum	0.445	106.13	47.23
	LABOUR :- FOR MIXING AND LAYING				
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.27	320.83	86.62
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0028	Mate	day	0.04	320.83	12.83
	For compaction by vibrator				
0040	Mason (average)	day	0.07	374.50	26.22
0017	Beldar	day	0.07	320.83	22.46
	MACHINERY				
004	Production cost of concrete by batch mix plant. (Assuming 25 cum. per day)	cum	1.00	350.00	350.00
029	Carriage of concrete by transit mixer.	km/ cum	10.00	30.00	300.00
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	210.00	210.00
021	Pin vibrator (SHP) with 50 cum. output per day	day	0.03	325.00	8.13
022	Surface Vibrator with 25 cum. output per day Add for steel form work	day	0.05	400.00	20.00
16.43B	Rate as per Item Number 16.43B of SH: Road work	cum	1.00	472.30	472.30
9999	Cutting and making joints	L.S.	50.00	2.00	100.00
	TOTAL				5868.90 W
	Add 1 % Water charges on "W"				58.69
	TOTAL				5927.59 X
	Add GST (multiplying factor 0.1405) on "X"				832.83
	TOTAL				6760.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				1014.06
	Total				7774.48 Z
	Add Cess @ 1% on "Z"				77.74
	Cost per cum.				7852.23
	Say				7852.25

16.43A Annexure 'A' to Item number 16.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 8.5 cum.				
	MATERIAL:				
	(i) Painting with primer				
	(i) Construction joint 6.15m. long 30cm deep				
	$6.15 \times (0.30 + 0.01) = 1.91 \text{sqm.} +$				
	(ii) Dummy joints				
	4.61m long and 10cm deep 10mm wide				
	$4.61 \times (0.10 + 0.10 + 0.01) = 0.97 \text{ sqm.} = 2.88$				
	sqm.				
	$2.88 \text{sqm.} @ 0.26 \text{ lit./sqm.} = 0.75 \text{ lit.} +$				
	Add 5% wastage = 0.03				
	Total = 0.78 lit				
316	Bitumen solution primer of approved quality	litre	0.78	45.00	35.10
9977	Carriage	L.S.	0.91	2.00	1.82
	(ii) Joint sealing compound (GradeA) for				
	construction joint 6.15m long 10mm wide				
	25mm deep.				
	$6.15 \times 2 \times 2.5 \text{cm} = 3075 \text{cucm}$				
	For dummy joints				
	$461 \times 1.0 \times 10 \text{cm.} = 4610 \text{cucm.}$				
	= 7685 cum				
	Add 5% wastage = 384 cucm				
	Total = 8069 cucm				
	Say 8.07 cudm. @ 1.2kg/cudm = 9.68 kg				
314	Bitumen hot sealing compound : grade A	kilogram	9.68	28.00	271.04
9977	Carriage	L.S.	0.91	2.00	1.82
370	Coal (steam)	quintal	0.015	440.00	6.60
9977	Carriage	L.S.	0.91	2.00	1.82
	LABOUR:				
	(ii) For applying primer qty. = 2.88 sqm				
0023	Mason (brick layer) 1st class	day	3.00	476.00	1428.00
0031	Painter	day	0.10	374.50	37.45
	(iii) Labour for heating and filling sealing				
	compound.				
0024	Mason (brick layer) 2nd class	day	0.25	374.50	93.63
	(iv) Beldar for heating = 0.06 +				
0017	Beldar	day	0.68	320.83	218.16
	TOTAL				2095.44
	Cost for 8.5 cum				2095.44
	Cost per cum.				246.52
	Say				246.50

16.43B Annexure 'B' to Item number 16.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	ANALYSIS OF ANNEXTURE 'B' 16.43B				
	(Required in 16.43)				
	STEEL FORM WORK :				
	Part-I Cost of materials :				
	Assuming that pavement 30m long 22.5m wide				
	and 0.30m deep having panel size				
	6.15x4.61x0.30m or 8.50cu. laid in a day of 8				
	hrs. Hence form work to be provided for 2				
	days				
	MATERIAL				
	22x30.75 = 676.50 2x46.10 = 92.20				
	Total = 768.70m.				
	768.70 @ 83.10 kg/ m = 25.44 M.T.				
	Assuming that channel will become				
	unserviceable after use for 5000 slab (100				
	times) and salvage value of steel shall fetch				
	20% of its basic cost.				
1007	Structurals such as tees,angles channels and	quintal	0.0407104	4600.00	187.27
	R.S. joists				
2205	Carriage of Steel	tonne	0.004071	94.34	0.38
	Part-II Labour for assembling, erection,				
	dismeritelling and cleaning the shuttering.				
	Assuming that 255 labour for steel shuttering				
	shall be required as compared to timber				
	shuttering. Contact area of 50 slabs of steel				
	shuttering.				
	Long channel = 11x20x0.30 = 66.00				
	= 2x45.10x0.30 = 27.06				
	Total= 93.06				
	LABOUR				
0013	Blacksmith 2nd class	day	2.86	374.50	1071.07
0017	Beldar	day	2.86	320.83	917.57
	Carriage of steel for extra lead of runway				
0017	Beldar	day	5.73	320.83	1838.36
	TOTAL				4014.65
	Cost for 50 slabs / 8.5 cum				
	Cost per cum.				
	Say				
	16.44 Extra for providing and mixing hardening compound of approved quality as				
	per manufacturer's specification in cement concrete.				
	Details of cost for 1 litre				
	MATERIAL				
7254	Hardening compound	litre	1.00	38.00	38.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(including cartage)				
	TOTAL				38.00 W
	Add 1 % Water charges on "W"				0.38
	TOTAL				38.38 X
	Add GST (multiplying factor 0.1405) on "X"				5.39
	TOTAL				43.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				6.57
	Total				50.34 Z
	Add Cess @ 1% on "Z"				0.50
	Cost per litre				50.84
	Say				50.85

16.45 Providing and fixing in position pre-moulded joint filler in expansion joints.

	Details of cost for 18mm thick 15cm deep and 300m in length				
	MATERIAL				
317	Premoulded joint filler 12 mm thick = 300x0.15 = 45 sqm.	sqm	45.00	360.00	16200.00
2211	Carriage of Tar bitumen 45x0.018 =0.81cum. Weight 256.3kg. per cum. = 256.3x0.81 = 207.6kg. say 0.21 tonne	tonne	0.21	106.13	22.29
	Labour for fixing etc. :				
0024	Mason (brick layer) 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	3.00	320.83	962.49
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				17613.10 W
	Add 1 % Water charges on "W"				176.13
	TOTAL				17789.23 X
	Add GST (multiplying factor 0.1405) on "X"				2499.39
	TOTAL				20288.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				3043.29
	Total				23331.91 Z
	Add Cess @ 1% on "Z"				233.32
	Cost for 300m length, 18mm width and 15cm depth				23565.23
	Cost for one cm. depth one cm. width per metre length.				2.91
	Say				2.90

16.46 Providing and laying in position bitumen hot sealing compound for expansion joints etc.

16.46.1 Using grade 'A' sealing compound.

Details of cost for 20mm wide 20mm deep and 300 metres in length.
Sealing compound 300x0.02x0.02 = 0.12cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight 256.3kg. per cum. = 256.3x0.12 = 30.76 kg				
	MATERIAL				
314	Bitumen hot sealing compound : grade A	kilogram	30.76	28.00	861.28
2211	Carriage of Tar bitumen	tonne	0.03	106.13	3.18
	30.76 = 0.3076 Say				
	0.03 tonne				
	Labour for filling :				
0024	Mason (brick layer) 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	2.50	320.83	802.08
9999	Sundries	L.S.	20.67	2.00	41.34
	TOTAL				2082.38 W
	Add 1 % Water charges on "W"				20.82
	TOTAL				2103.20 X
	Add GST (multiplying factor 0.1405) on "X"				295.50
	TOTAL				2398.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				359.81
	Total				2758.51 Z
	Add Cess @ 1% on "Z"				27.59
	Cost for 20mm depth, 20mm width and 300m length				2786.09
	Cost for one cm. depth one cm. width per metre length.				2.32
	Say				2.30

16.47 Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of oil, dirt, scales, oil, grease and other foreign material etc. and lining out complete.

16.47.1 New work (Two or more coats)

Details of cost for 10sqm.

MATERIAL

1st Coat - 1.66 +

2nd Coat -1.13

Total = 2.79

7256	Superior quality road marking paint (water based)	litre	2.79	135.00	376.65
9977	Carriage of paint	L.S.	5.07	2.00	10.14
	LABOUR				
0031	Painter	day	0.54	374.50	202.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.54	320.83	173.25
9999	Sundries	L.S.	36.40	2.00	72.80
	(including painting brush, wire brush, labour for controlling traffic and other T&P etc.)				
	TOTAL				835.07 W
	Add 1 % Water charges on "W"				8.35
	TOTAL				843.42 X
	Add GST (multiplying factor 0.1405) on "X"				118.50
	TOTAL				961.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				144.29
	Total				1106.21 Z
	Add Cess @ 1% on "Z"				11.06
	Cost for 10 sqm.				1117.27
	Cost per sqm.				111.73
	Say				111.75

16.47.2 Old work (One or more coats)

Details of cost for 10sqm.

MATERIAL

7256	Superior quality road marking paint (water based)	litre	1.66	135.00	224.10
9977	Carriage of paint	L.S.	1.12	2.00	2.24

LABOUR

0031	Painter	day	0.36	374.50	134.82
0017	Beldar	day	0.36	320.83	115.50
9999	Sundries	L.S.	24.44	2.00	48.88

(including painting brush, wire brush, labour for controlling traffic and other T&P etc.)

TOTAL 525.54 W

Add 1 % Water charges on "W" 5.26

TOTAL 530.79 X

Add GST (multiplying factor 0.1405) on "X" 74.58

TOTAL 605.37 Y

Add 15 % Contractor's profit and overheads on "Y" 90.81

Total 696.18 Z

Add Cess @ 1% on "Z" 6.96

Cost for 10 sqm. 703.14

Cost per sqm. 70.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				70.30
16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
16.48.1	New work (Two or more coats)				
	Details of cost for 10sqm.				
	MATERIAL				
7255	Road marking paint (spirit based) (confirming to IS 164 spirit base)	litre	1.48	115.00	170.20
9977	Carriage of paint (1.48/0.8x0.08x6.9)	L.S.	2.65	2.00	5.30
	LABOUR				
0028	Mate	day	0.1	320.83	32.08
0031	Painter	day	0.54	374.50	202.23
0017	Beldar	day	1.68	320.83	538.99
	for stretching of rope & erecting of barricading				
9999	Sundries	L.S.	36.40	2.00	72.80
	(including painting brush, wire brush, labour for controlling traffic and other T&P etc.)				
	TOTAL				1021.61 W
	Add 1 % Water charges on "W"				10.22
	TOTAL				1031.82 X
	Add GST (multiplying factor 0.1405) on "X"				144.97
	TOTAL				1176.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				176.52
	Total				1353.31 Z
	Add Cess @ 1% on "Z"				13.53
	Cost for 10 sqm.				1366.85
	Cost per sqm.				136.68
	Say				136.70

16.48.2 Old work (One or more coats)

Details of cost for 10sqm.

MATERIAL

7255	Road marking paint (spirit based) (confirming to IS 164 spirit base)	litre	0.89	115.00	102.35
9977	Carriage of paint.	L.S.	0.65	2.00	1.30
	LABOUR				
0028	Mate	day	0.06	320.83	19.25
0031	Painter	day	0.36	374.50	134.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar (stretching of rope & erecting of barricading etc.)	day	1.12	320.83	359.33
9999	Sundries (including painting brush, wire brush, labour for controlling traffic and other T&P etc.)	L.S.	24.44	2.00	48.88
	TOTAL				665.93 W
	Add 1 % Water charges on "W"				6.66
	TOTAL				672.59 X
	Add GST (multiplying factor 0.1405) on "X"				94.50
	TOTAL				767.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				115.06
	Total				882.15 Z
	Add Cess @ 1% on "Z"				8.82
	Cost for 10 sqm.				890.97
	Cost per sqm.				89.10
	Say				89.10

16.49 Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.

Details of cost for 10 Nos.

(i) Earth work in excavation

Channel :- $10 \times 1 \times 1.00 \times 0.20 \times 0.15 = 0.30 +$

Bell mouth :- $10 \times 1 \times 1.00 \times 0.50 \times$

$(0.18 + 0.075) / 2 = 0.64$

Total = 0.94

MATERIAL

2.8.1 (Rate as per item no. 2.8.1 of SH: Earth work) cum 0.94 171.40 161.12 A

(ii) Cement concrete 1:4:8

Channel :- $10 \times 1 \times 1.00 \times 0.20 \times 0.075 = 0.15 \text{ cum.}$

4.1.8 Rate as per item no 4.1.8 of cum 0.15 4955.20 743.28 A

SH : Concrete Work

(iii) Cement concrete 1:3:6

Channel

$10 \times 1 \times 1.00 \times 0.20 \times 0.75 = 0.15 +$ Bed of bell mouth :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$10 \times 1 \times 1.00 \times 0.50 \times (0.18 + 0.075) / 2 = 0.64 +$ Haunches portion $10 \times 2 \times (0.35 + 0.075) / 2 \times 0.25 \times 0.375 = 0.40 +$ Rect part :- $10 \times 2 \times 0.35 \times 0.25 \times 0.375 = 0.65 +$ Quadrant portion :- $10 \times 1 [(0.30 \times 0.30) - 3.142 / 4 (0.30)^2] \times 0.30 = 0.06 +$ Central middle part :- $10 \times 1 \times 0.30 \times 0.25 \times 0.075 = 0.05$ Total = 1.95 cum. 4.1.5 (Rate as per item no.4.1.5 S.H. : Cement Concrete) (iv) RCC in shelves $10 \times 1 \times 1.00 \times 0.50 \times 0.05 = 0.25$ cum. 5.3 Rate as per item no. 5.3 SH : Reinforced cement concrete work (v) Reinforcement for RCC @100kg/cum. $0.25 \times 100 = 25$ kg. 5.22.1 Rate as per item no. 5.22.1 SH : Reinforced cement concrete work (vi) Centering and shuttering For shelves (sides) $10 \times 2 (1.00 + 0.50) \times 0.05 = 1.50 +$ Front side of bell mouth : $10 \times 2 (0.446) \times 0.375 = 3.34 +$ Pipe portion: $10 \times [0.30 \times 0.375 - 3.142 / 4 (0.30)^2] = 0.04 +$ Out side of bell mouth Total= $10 \times (1.00 + 0.50) \times 0.45 = 9.00 +$ Deduct pipe opening Total = $10 \times 0.785 \times 0.30 \times 0.30 = (-) 0.71$ Total = 13.17 5.9.1 Rate as per item No.5.9.1 of SH : RCC (vii) cement plaster on RCC slab $10 \times 1.00 \times 0.50 = 5.00 + 10 \times 2 (1.00 + 0.50) \times 0.05 = 1.50 +$ Total = 6.50 sqm. 5.23 Rate as per item no.13.16.1 (viii) Neat cement punning: Qty. same as marked (x) at (9vi) = Total = $3.34 + 0.04 = 3.38$ sqm. Channel portion: $10 \times 1 \times (0.85 + 0.30) / 2 \times 0.25 = 1.43$ Total = 4.81 13.18 Rate as per item no.13.18 S.H. Finishing 367 Portland Cement (OPC-43 grade) 2209 Carriage of Cement 983 Fine sand	cum	1.95	5424.85	10578.46 A
		cum	0.25	7835.75	1958.94 A
		kg	25.00	75.40	1885.10 A
		sqm	13.17	216.45	2850.69 A
		sqm	6.50	142.35	925.27 A
		sqm	4.81	42.10	202.52 A
		tonne	0.024	4940.00	118.56
		tonne	0.024	94.34	2.26
		cum	0.05	900.00	45.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.05	106.13	5.31
	LABOUR				
0017	Beldar	day	0.035	320.83	11.23
0011	Bhisti	day	0.003	320.83	0.96
9999	Hire charges of mixer	L.S.	1.27	2.00	2.54
9999	Sundries	L.S.	1.27	2.00	2.54
	Labour for plaster				
0040	Mason (average)	day	0.33	374.50	123.59
0018	Coolie	day	0.488	320.83	156.57
0011	Bhisti	day	0.60	320.83	192.50
9999	Extra for removing burr	L.S.	8.71	2.00	17.42
9999	Scaffolding	L.S.	7.62	2.00	15.24
	TOTAL				19999.09 W
	Add 1 % Water charges on "W-A"	693.71			6.94
	TOTAL				20006.03 X
	Add GST (multiplying factor 0.1405) on "X"	700.65			98.44
	TOTAL				20104.47 Y
	Add 15 % Contractor's profit and overheads on "Y"	799.09			119.86
	Total				20224.33 Z
	Add Cess @ 1% on "Z"	918.95			9.19
	Cost for 10 nos.				20233.52
	Cost for one bell mouth				2023.35
	Say				2023.35
16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.				
	Details of cost for 15 Nos.				
	MATERIAL				
7426	Cat's eye	each	15.00	100.00	1500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of cats eyes	L.S.	2.60	2.00	5.20
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	39.00	2.00	78.00
	(including material required for fixing cats eyes and providing barricading to divert traffic)				
	TOTAL				1930.87 W
	Add 1 % Water charges on "W"				19.31
	TOTAL				1950.17 X
	Add GST (multiplying factor 0.1405) on "X"				274.00
	TOTAL				2224.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				333.63
	Total				2557.80 Z
	Add Cess @ 1% on "Z"				25.58
	Cost for 15 Nos.				2583.38
	Cost for one cat's eye.				172.23
	Say				172.25

16.51 Preparation of sub-base road pavement with commercial dry lime (slaked), fly ash stabilised soil with a mix of 3% lime, 12% fly ash and 85% local suitable soil by weight, so as to achieve minimum field C.B.R. of 20, including mixing, rolling with road roller curing etc. all complete.

16.51.1 Minimum thickness 15 cm

Details of cost for 6.67 sqm. or 1 cum.

MATERIAL

777	Dry hydrated lime (factory made)	quintal	0.41	290.00	118.90
2208	Carriage of Lime	cum	0.068	106.13	7.22
1980	Flyash	cum	0.277	10.00	2.77
2267	Carriage of Stone dust	cum	0.277	106.13	29.40

LABOUR

(i) For earth work :

0017	Beldar	day	0.116	320.83	37.22
0018	Coolie	day	0.116	320.83	37.22
979	Royalty for good earth	cum	0.655	40.00	26.20
2241	Carriage of Good earth (ii) For mixing :	cum	0.655	132.66	86.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.025	320.83	8.02
0018	Coolie	day	0.025	320.83	8.02
	(iii) For rolling layers :				
0016	Chowkidar	day	0.0008	320.83	0.26
003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.0008	3000.00	2.40
9999	Sundries	L.S.	0.18	2.00	0.36
	(iv) Labour for spreading and watering :				
0017	Beldar	day	0.26	320.83	83.42
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	day	0.18	320.83	57.75
	TOTAL				589.45 W
	Add 1 % Water charges on "W"				5.89
	TOTAL				595.35 X
	Add GST (multiplying factor 0.1405) on "X"				83.65
	TOTAL				678.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				101.85
	Total				780.84 Z
	Add Cess @ 1% on "Z"				7.81
	Cost for 1 cum.				788.65
	Say				788.65

16.52 Providing and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 lime: 2 fly ash : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including finishing with 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) in foot paths, including preparation of sub grade with a hand rammer, laying 10 mm thick leveling course of fine sand (Sand) and filling the joints with fine sand.

Details of cost for a path of area 10sqm. no. of blocks required for 10sqm. = 108 nos.

(a) Concrete in blocks

(108x0.30x0.30x0.09 = 0.875 cum.)

16.52Y	Rate as per sub analysis Item Number	cum	0.875	2809.05	2457.92

16.52Y of SH:Road Work

(b) Labour for surface excavation :

0017	Beldar	day	0.72	320.83	231.00
0018	Coolie	day	0.60	320.83	192.50

(c) For levelling course of fine sand

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6501	Sand zone V (Jamuna)	cum	0.10	1225.00	122.50
2335	Carriage of Sand	cum	0.10	106.13	10.61
	LABOUR				
0017	Beldar	day	0.0089	320.83	2.86
0018	Coolie	day	0.0107	320.83	3.43
0011	Bhisti	day	0.0035	320.83	1.12
	(d) For finishing with 10mm thick cement plaster cement plaster with cement mortar 1:3(1 Cement: 3 Coarse sand) qty. for 9.72sqm. = 0.0972 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0972	4469.50	434.44
0040	Mason (average)	day	0.787	374.50	294.73
0018	Coolie	day	0.787	320.83	252.49
0011	Bhisti	day	0.262	320.83	84.06
9999	Scaffolding and sundries	L.S.	12.22	2.00	24.44
	(e) For laying blocks and filling joints with Sand for filling joints 5mm (av.) thick				
6501	Sand zone V (Jamuna)	cum	0.005	1225.00	6.13
2335	Carriage of Sand	cum	0.005	106.13	0.53
0023	Mason (brick layer) 1st class	day	0.90	476.00	428.40
0018	Coolie	day	1.98	320.83	635.24
0011	Bhisti	day	0.05	320.83	16.04
	TOTAL				5198.44 W
	Add 1 % Water charges on "W"				51.98
	TOTAL				5250.42 X
	Add GST (multiplying factor 0.1405) on "X"				737.68
	TOTAL				5988.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				898.22
	Total				6886.32 Z
	Add Cess @ 1% on "Z"				68.86
	Cost for 10sqm. or 0.9cum.				6955.18
	Rate per cum.				7727.98
	Say				7728.00

16.52X Sub Analysis X for sub analysis item Number 16.52Y

Sub Analysis 16.52X for use in sub analysis of
16.52Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1cum of lime Flyash mortar 1:2:3 (lime:2 flyash:3 coarse sand).				
	MATERIAL				
773	Unslaked lime	quintal	1.52	300.00	456.00
1980	Flyash	cum	0.48	10.00	4.80
982	Coarse sand	cum	0.72	1350.00	972.00
2208	Carriage of Lime	cum	0.24	106.13	25.47
2266	Carriage of Surkhi	cum	0.48	106.13	50.94
2203	Carriage of Coarse sand	cum	0.72	106.13	76.41
	LABOUR				
	Labour for slaking the lime making, lime putty, grinding, measuring, carrying, depositing and mixing.				
0017	Beldar	day	0.90	320.83	288.75
0011	Bhisti	day	0.45	320.83	144.37
9999	Running and upkeep of mortar mill	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				2099.61
	Cost of 1.00 cum				2099.61
	Say				2099.60

16.52Y Sub Analysis Y for Item Number 16.52

Sub Analysis 'Y' (16.52Y) for use in Item

No. 16.52

Details of cost for 1 cum. of cement concrete

MATERIAL

Lime Flyash mortar

16.52X	Rate as per sub analysis of Item No 16.52X	cum	0.40	2099.60	839.84
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1350.00	864.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1350.00	283.50
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.85	106.13	90.21
	LABOUR				
0017	Beldar	day	0.65	320.83	208.54
0018	Coolie	day	0.6	320.83	192.50
0011	Bhisti	day	0.27	320.83	86.62
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0028	Mate	day	0.04	320.83	12.83
9999	Hire and running charges of mixer	L.S.	26.91	2.00	53.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	2.00	27.04
9999	Hire charges of steel moulds, table vibrators, rammers, bolts, nuts and washers etc.	L.S.	53.82	2.00	107.64
	TOTAL				2809.07
	Cost of 1.00 cum				2809.07
	Say				2809.05

16.53 Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre

(cost of M.S. angle, C.C. blocks shall be paid separately)

Details of cost for 30.00 m length

MATERIAL

8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m) (Having 50 Nos. of rounds per 6 meter = 1 bundles) Therefore, Nos. of bundles 30/10=3bundles)	bundle	5.00	600.00	3000.00
8692	RBT reinforced barbed wire 9 rounds = 9x30 = 270m	metre	270.00	6.50	1755.00
8693	Turn buckle and strengthening bolt	each set	10.00	40.00	400.00
9999	G.I. staples clips etc.	L.S.	49.40	2.00	98.80

LABOUR

Labour for fixing straightening cutting of tape/ coils & wire

0017	Beldar	day	1.00	320.83	320.83
	0.50x2 = 1.00 Nos (Taken double due to height)				
0012	Blacksmith 1st class	day	0.50	476.00	238.00
0013	Blacksmith 2nd class	day	0.50	374.50	187.25

Total 5999.88 W

Add 1 % Water charges on "W" 60.00

TOTAL 6059.88 X

Add GST (multiplying factor 0.1405) on "X" 851.41

TOTAL 6911.29 Y

Add 15 % Contractor's profit and overheads on "Y" 1036.69

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				7947.99 Z
	Add Cess @ 1% on "Z"				79.48
	cost for 30.00 metre				8027.47
	cost per metre				267.58
	Say				267.60

16.54 Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.

16.54.1 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.

Details of cost for 195 cum (or 450 M.T.)

MATERIAL

7309	Paving Asphalt VG-30 of approved quality (percentage by weight of total mix)	tonne	22.50	39570.00	890325.00
2211	Carriage of Tar bitumen	tonne	22.5	106.13	2387.93

Aggregate

Total weight of mix = 450 tonnes

Weight of bitumen = 22.50 tonnes

Weight of aggregate = 450 - 22.50 = 427.50 tonnes

Taking density of aggregate = 1.5 tonne/cum

Volume of aggregate = 427.50 / 1.5 = 285 cum

Grading - II/19 mm (Nominal Size)

25 - 10mm size = 30% of 285 = 85.5 cum

10 - 5mm size = 28% of 285 = 79.8 cum

5mm and below = 40% of 285 = 114 cum

294	Stone Aggregate (Single size) : 25 mm nominal size Qty = 85.5 * 50 / 100	cum	42.75	1350.00	57712.50
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 85.5 * 50 / 100	cum	42.75	1350.00	57712.50
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 79.8 * 50 / 100	cum	39.90	1350.00	53865.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 79.8 * 50 / 100	cum	39.90	1400.00	55860.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 285 * 40 /100	cum	114.00	1400.00	159600.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	279.30	106.13	29642.13
777	Lime Filler @ 2% (percentage by weight of aggregate) Dry hydrated lime (factory made)	quintal	85.50	290.00	24795.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V =8.55/1.29 = 6.63 cum MACHINERY/ HIRE CHARGES:	cum	6.63	106.13	703.64
062	Hot mix Plant -120 TPH capacity	hour	3.00	15000.00	45000.00
063	Hot mix Plant 100 TPH Capacity	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
	for checking line & levels Total				1462508.96 W
	Add 1 % Water charges on "W"				14625.09
	TOTAL				1477134.05 X
	Add GST (multiplying factor 0.1405) on "X"				207537.33
	TOTAL				1684671.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				252700.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1937372.09 Z
	Add Cess @ 1% on "Z"				19373.72
	Cost for 195 cum(450 M.T.)				1956745.81
	Cost per cum.				10034.59
	Say				10034.60
16.54.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.				
	Details of cost for 195 cum (or 450 M.T.)				
	MATERIAL				
7309	Paving Asphalt VG-30 of approved quality (percentage by weight of total mix)	tonne	22.50	39570.00	890325.00
2211	Carriage of Tar bitumen	tonne	22.50	106.13	2387.93
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 22.50 tonnes				
	Weight of aggregate = 450 -22.50				
	= 427.50 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =427.50/1.5 =285cum				
	Grading - II/19 mm (Nominal Size)				
	25 - 10mm size = 30% of 285 = 85.5 cum				
	10 - 5mm size = 28% of 285 = 79.8 cum				
	5mm and below = 40% of 285 = 114 cum				
294	Stone Aggregate (Single size) : 25 mm nominal size Qty = 85.5 * 50 /100	cum	42.75	1350.00	57712.50
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 85.5 * 50 /100	cum	42.75	1350.00	57712.50
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 79.8 * 50 /100	cum	39.9	1350.00	53865.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 79.8 * 50 /100	cum	39.90	1400.00	55860.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 285 * 40 /100	cum	114.00	1400.00	159600.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	279.30	106.13	29642.13
777	Dry hydrated lime (factory made)	quintal	85.50	290.00	24795.00
2208	Carriage of Lime	cum	6.63	106.13	703.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(considering density of lime as 1.29 T per cum) V = 8.55/1.29 = 6.63 cum MACHINERY/ HIRE CHARGES:				
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller	hour	3.90	1200.00	4680.00
	Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)				
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar	day	14.00	320.83	4491.62
	working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction				
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
	for checking line & levels Total				1450508.96 W
	Add 1 % Water charges on "W"				14505.09
	TOTAL				1465014.05 X
	Add GST (multiplying factor 0.1405) on "X"				205834.47
	TOTAL				1670848.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				250627.28
	Total				1921475.80 Z
	Add Cess @ 1% on "Z"				19214.76
	Cost for 195 cum(450 M.T.)				1940690.56
	Cost per cum.				9952.26
	Say				9952.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100120 TPH capacity.				
	Details of cost for 205 cum (or 450 M.T.)				
	MATERIAL				
7309	Paving Asphalt VG-30 of approved quality	tonne	15.75	39570.00	623227.50
	3.5% of 450 MT = 15.75 MT				
2211	Carriage of Tar bitumen	tonne	15.75	106.13	1671.55
	Weight of mix = 205 * 2.5 = 450 tonnes				
	Aggregate				
	Total weight of mix = 450 tonnes Weight of				
	bitumen = 15.75 tonnes Weight of aggregate =				
	450 -15.75 = 434.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =434.25/1.5				
	=289.50cum				
	Grading - II/19 mm (Nominal Size)				
	25 - 10mm size = 40% of 289.50 = 115.8 cum				
	10 - 5mm size = 40% of 289.50 = 115.8 cum				
	5mm and below = 20% of 289.50 = 57.9 cum				
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	57.90	1350.00	78165.00
	Qty = 115.8 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	57.90	1350.00	78165.00
	Qty = 115.8 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	57.90	1350.00	78165.00
	Qty = 115.8 * 50 /100				
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	57.90	1400.00	81060.00
	Qty = 115.8 * 50 /100				
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	57.90	1400.00	81060.00
	Qty = 289.50 * 20 /100				
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	289.50	106.13	30724.65
	MACHINERY				
062	Hot mix Plant -120 TPH capacity @75tonne per hour actual output	hour	3.00	15000.00	45000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
063	Hot mix Plant 100 TPH Capacity @75tonne per hour actual output	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH @75tonne per hour actual output	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading $X * 10 / 100 =$ $13500.00 * 10 / 100$				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR:				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar	day	14.00	320.83	4491.62
	working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction				
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	3085.00
					1183624.82 W
	Add 1 % Water charges on "W"				11836.25
	TOTAL				1195461.07 X
	Add GST (multiplying factor 0.1405) on "X"				167962.28
	TOTAL				1363423.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				204513.50
	Total				1567936.85 Z
	Add Cess @ 1% on "Z"				15679.37
	Cost for 205 cum(450 M.T.)				1583616.22
	Cost per cum.				7724.96
	Say				7724.95

16.55.2 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60- 90 TPH capacity.

Details of cost for 205 cum (or 450 M.T.)

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7309	Paving Asphalt VG-30 of approved quality 3.5% of 450 MT = 15.75 MT	tonne	15.75	39570.00	623227.50
2211	Carriage of Tar bitumen Weight of mix = 205 * 2.5 = 450 tonnes Aggregate Total weight of mix = 450 tonnes Weight of bitumen = 15.75 tonnes Weight of aggregate = 450 - 15.75 = 434.25 tonnes Taking density of aggregate = 1.5 tonne/cum Volume of aggregate = 434.25 / 1.5 = 289.50 cum Grading - II/19 mm (Nominal Size) 25 - 10mm size = 40% of 289.50 = 115.8 cum 10 - 5mm size = 40% of 289.50 = 115.8 cum 5mm and below = 20% of 289.50 = 57.9 cum	tonne	15.75	106.13	1671.55
294	Stone Aggregate (Single size) : 25 mm nominal size Qty = 115.8 * 50 / 100	cum	57.90	1350.00	78165.00
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 115.8 * 50 / 100	cum	57.90	1350.00	78165.00
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 115.8 * 50 / 100	cum	57.90	1350.00	78165.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 115.8 * 50 / 100	cum	57.90	1400.00	81060.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 289.50 * 20 / 100	cum	57.90	1400.00	81060.00
2202	Carriage of Stone aggregate below 40 mm nominal size MACHINERY	cum	289.50	106.13	30724.65
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH @ 75 tonne per hour actual output	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne/ km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total:				1170143.97 W
	Add 1 % Water charges on "W"				11701.44
	TOTAL				1181845.41 X
	Add GST (multiplying factor 0.1405) on "X"				166049.28
	TOTAL				1347894.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				202184.20
	Total				1550078.89 Z
	Add Cess @ 1% on "Z"				15500.79
	Cost for 205 cum(450 M.T.)				1565579.68
	Cost per cum.				7636.97
	Say				7636.95

16.56 Providing and laying semi- dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.

16.56.1 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.

Details of cost for 195 cum (450 tonnes)

Area covered for 25 mm thickness=7800 sqm

MATERIAL

7309	Paving Asphalt VG-30 of approved quality 5% of 450 MT = 22.50 MT	tonne	22.5	39570.00	890325.00
2211	Carriage of Tar bitumen	tonne	22.5	106.13	2387.93
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 22.50 tonnes				
	Weight of aggregate = 450 -22.50 = 427.50 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =427.50/1.5 =285cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Grading - II/19 mm (Nominal Size)				
	9.5 - 4.75 mm size = 57% of 285 = 162.45 cum				
	4.75mm and below = 41% of 285				
	= 116.85 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = 162.45 * 50 /100	cum	81.225	1350.00	109653.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 162.45 * 50 /100	cum	81.225	1350.00	109653.75
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 285 * 41 /100	cum	116.85	1400.00	163590.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	279.30	106.13	29642.13
777	Dry hydrated lime (factory made)	quintal	85.50	290.00	24795.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V =8.55/1.29 = 6.63 cum MACHINERY/ HIRE CHARGES:	cum	6.63	106.13	703.64
062	Hot mix Plant -120 TPH capacity @75tonne per hour actual output	hour	3.00	15000.00	45000.00
063	Hot mix Plant 100 TPH Capacity @75tonne per hour actual output	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH @75tonne per hour actual output	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines. levels and lavout of construction for checking line & levels	day	14.00	320.83	4491.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1459052.31 W
	Add 1 % Water charges on "W"				14590.52
	TOTAL				1473642.83 X
	Add GST (multiplying factor 0.1405) on "X"				207046.82
	TOTAL				1680689.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				252103.45
	Total				1932793.10 Z
	Add Cess @ 1% on "Z"				19327.93
	Cost for 7800 Sqm				1952121.03
	Cost per sqm				250.27
	Say				250.25

16.56.2 16.56.2 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.

Details of cost for 195 cum (450 tonnes)

Area covered for 25 mm thickness=7800 sqm

MATERIAL

7309	Paving Asphalt VG-30 of approved quality 5% of 450 MT = 22.50 MT	tonne	22.5	39570.00	890325.00
2211	Carriage of Tar bitumen	tonne	22.5	106.13	2387.93
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 22.50 tonnes				
	Weight of aggregate = 450 -22.50 = 427.50 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =427.50/1.5 =285cum				
	Grading - II/19 mm (Nominal Size)				
	9.5 - 4.75 mm size = 57% of 285 = 162.45 cum				
	4.75mm and below = 41% of 285 = 116.85 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = 162.45 * 50 /100	cum	81.225	1350.00	109653.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 162.45 * 50 /100	cum	81.225	1350.00	109653.75
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 285 * 41 /100	cum	116.85	1400.00	163590.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	279.30	106.13	29642.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Lime Filler @ 2% (percentage by weight of aggregate)				
777	Dry hydrated lime (factory made)	quintal	85.50	290.00	24795.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum)	cum	6.63	106.13	703.64
	V =8.55/1.29 = 6.63 cum				
	MACHINERY/ HIRE CHARGES:				
	@75tonne per hour actual output				
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
	@75tonne per hour actual output				
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
	@75tonne per hour actual output				
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar	day	14.00	320.83	4491.62
	working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and lavout of construction for checking line & levels				
	Total				1447052.31 W
	Add 1 % Water charges on "W"				14470.52
	TOTAL				1461522.83 X
	Add GST (multiplying factor 0.1405) on "X"				205343.96
	TOTAL				1666866.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				250030.02
	Total				1916896.81 Z
	Add Cess @ 1% on "Z"				19168.97

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 7800 Sqm				1936065.78
	Cost per sqm				248.21
	Say				248.20
16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
7309	Paving Asphalt VG-30 of approved quality	tonne	24.75	39570.00	979357.50
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen	tonne	24.75	106.13	2626.72
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75 =				
	425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5 =283.50cum				
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50 = 85.05				
	cum				
	10 - 5mm size = 25% of 283.50 =				
	70.88 cum				
	5mm and below = 42% of 283.50 =				
	119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	35.44	1350.00	47844.00
	Qty = 70.88 * 50 /100				
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	35.44	1400.00	49616.00
	Qty = 70.88 * 50 /100				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 283.5 * 40 /100	cum	119.07	1400.00	166698.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	275	106.13	29185.77
777	Dry hydrated lime (factory made)	quintal	127.6	290.00	37004.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V = 12.758/1.29 = 9.89 cum	cum	9.89	106.13	1049.63
MACHINERY/ HIRE CHARGES:					
062	Hot mix Plant -120 TPH capacity	hour	3.00	15000.00	45000.00
063	Hot mix Plant 100 TPH Capacity	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
LABOUR					
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1558104.38 W
	Add 1 % Water charges on "W"				15581.04
	TOTAL				1573685.42 X
	Add GST (multiplying factor 0.1405) on "X"				221102.80
	TOTAL				1794788.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				269218.23
	Total				2064006.46 Z
	Add Cess @ 1% on "Z"				20640.06
	Cost for 191 cum(450 Tonne)				2084646.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per cum.				10914.38
	Say				10914.40
16.57.2	16.57.2 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100- 120 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
7309	Paving Asphalt VG-30 of approved quality	tonne	24.75	39570.00	979357.50
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen	tonne	24.75	106.13	2626.72
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75 =				
	425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5 =283.50cum				
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50				
	= 85.05 cum				
	10 - 5mm size = 25% of 283.50 = 70.88 cum				
	5mm and below = 42% of 283.50 =				
	119.07 cum				
	Waste Plastic @ 8% of the weigh of bitumen				
	i.e. 24.75*8%				
7280	Waste plastic additive	tonne	1.98	40000.00	79200.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	35.44	1350.00	47844.00
	Qty = 70.88 * 50 /100				
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	35.44	1400.00	49616.00
	Qty = 70.88 * 50 /100				
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	119.07	1400.00	166698.00
	Qty = 283.5 * 40 /100				
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	275.00	106.13	29185.77
	Lime Filler @ 2% (percentage by weight of aggregate)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
777	Dry hydrated lime (factory made)	quintal	127.60	290.00	37004.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) $V = 12.758/1.29 = 9.89$ cum MACHINERY/ HIRE CHARGES:	cum	9.89	106.13	1049.63
062	Hot mix Plant -120 TPH capacity	hour	3.00	15000.00	45000.00
063	Hot mix Plant 100 TPH Capacity	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1637304.38 W
	Add 1 % Water charges on "W"				16373.04
	TOTAL				1653677.42 X
	Add GST (multiplying factor 0.1405) on "X"				232341.68
	TOTAL				1886019.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				282902.86
	Total				2168921.96 Z
	Add Cess @ 1% on "Z"				21689.22
	Cost for 191 cum(450 Tonne)				2190611.18
	Cost per cum.				11469.17
	Say				11469.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.57.3	40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
312	Bitumen grade PMB - 40	M.T.	24.75	32200.00	796950.00
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen	tonne	24.75	106.13	2626.72
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75 =				
	425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5 =283.50cum				
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50 = 85.05				
	cum				
	10 - 5mm size = 25% of 283.50				
	= 70.88 cum				
	5mm and below = 42% of 283.50				
	= 119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	35.44	1350.00	47844.00
	Qty = 70.88 * 50 /100				
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	35.44	1400.00	49616.00
	Qty = 70.88 * 50 /100				
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	119.07	1400.00	166698.00
	Qty = 283.5 * 40 /100				
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	275.0	106.13	29185.77
	Lime Filler @ 2% (percentage by weight of aggregate)				
777	Dry hydrated lime (factory made)	quintal	127.6	290.00	37004.00
2208	Carriage of Lime	cum	9.89	106.13	1049.63
	(consitering density of lime as 1.29 T per cum)				
	V = 12.758/1.29 = 9.89 cum MACHINERY/				
	HIRE CHARGES:				
062	Hot mix Plant -120 TPH capacity	hour	3.00	15000.00	45000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
063	Hot mix Plant 100 TPH Capacity	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller	hour	3.90	1200.00	4680.00
	Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)				
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1375696.88 W
	Add 1 % Water charges on "W"				13756.97
	TOTAL				1389453.85 X
	Add GST (multiplying factor 0.1405) on "X"				195218.27
	TOTAL				1584672.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				237700.82
	Total				1822372.93 Z
	Add Cess @ 1% on "Z"				18223.73
	Cost for 191 cum(450 Tonne)				1840596.66
	Cost per cum.				9636.63
	Say				9636.65
16.57.4	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	24.75	30536.00	755766.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen Aggregate Total weight of mix = 450 tonnes Weight of bitumen = 24.75 tonnes Weight of aggregate = 450 -24.75 = 425.25 tonnes Taking density of aggregate = 1.5 tonne/cum Volume of aggregate =425.25/1.5 =283.50cum Grading - II/19 mm (Nominal Size) 13.2 - 10mm size = 30% of 283.50 = 85.05 cum 10 - 5mm size = 25% of 283.50 = 70.88 cum 5mm and below = 42% of 283.50 = 119.07 cum	tonne	24.75	106.13	2626.72
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1350.00	47844.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1400.00	49616.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 283.5 * 40 /100	cum	119.07	1400.00	166698.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	275	106.13	29185.77
777	Dry hydrated lime (factory made)	quintal	127.6	290.00	37004.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V = 12.758/1.29 = 9.89 cum MACHINERY/ HIRE CHARGES:	cum	9.89	106.13	1049.63
062	Hot mix Plant -120 TPH capacity	hour	3.00	15000.00	45000.00
063	Hot mix Plant 100 TPH Capacity	hour	3.00	13000.00	39000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km.	hour	6.00	900.00	5400.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller	hour	3.90	1200.00	4680.00
	Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)				
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1334512.88 W
	Add 1 % Water charges on "W"				13345.13
	TOTAL				1347858.01 X
	Add GST (multiplying factor 0.1405) on "X"				189374.05
	TOTAL				1537232.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				230584.81
	Total				1767816.87 Z
	Add Cess @ 1% on "Z"				17678.17
	Cost for 191 cum(450 Tonne)				1785495.03
	Cost per cum.				9348.14
	Say				9348.15
16.57.5	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
7309	Paving Asphalt VG-30 of approved quality	tonne	24.75	39570.00	979357.50
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen	tonne	24.75	106.13	2626.72
	Aggregate				
	Total weight of mix = 450 tonnes				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75				
	= 425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5				
	=283.50cum				
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50				
	= 85.05 cum				
	10 - 5mm size = 25% of 283.50 = 70.88 cum				
	5mm and below = 42% of 283.50				
	= 119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1350.00	47844.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1400.00	49616.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 283.5 * 40 /100	cum	119.07	1400.00	166698.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	275	106.13	29185.77
777	Dry hydrated lime (factory made)	quintal	127.6	290.00	37004.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V = 12.758/1.29 = 9.89 cum MACHINERY/ HIRE CHARGES:	cum	9.89	106.13	1049.63
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) 450x10=4500 tonne km. (incl POL)	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65) LABOUR	hour	3.90	1200.00	4680.00
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
Total					1546104.38 W
Add 1 % Water charges on "W"					15461.04
TOTAL					1561565.42 X
Add GST (multiplying factor 0.1405) on "X"					219399.94
TOTAL					1780965.36 Y
Add 15 % Contractor's profit and overheads on "Y"					267144.80
Total					2048110.17 Z
Add Cess @ 1% on "Z"					20481.10
Cost for 191 cum(450 Tonne)					2068591.27
Cost per cum.					10830.32
Say					10830.30

16.57.6 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.

Details of cost for 191 cum (450 tonnes)

MATERIAL

7309	Paving Asphalt VG-30 of approved quality @5.50% (percentage by weight of total mix	tonne	24.75	39570.00	979357.50
2211	Carriage of Tar bitumen Waste Plastic @ 8% of the weigh of bitumen i.e. 24.75*8%	tonne	24.75	106.13	2626.72
7280	Waste plastic additive Aggregate Total weight of mix = 450 tonnes Weight of bitumen = 24.75 tonnes	tonne	1.98	40000.00	79200.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of aggregate = $450 \times 24.75 = 425.25$ tonnes Taking density of aggregate = 1.5 tonne/cum Volume of aggregate = $425.25 / 1.5 = 283.50$ cum Grading - II/19 mm (Nominal Size) 13.2 - 10mm size = 30% of 283.50 = 85.05 cum 10 - 5mm size = 25% of 283.50 = 70.88 cum 5mm and below = 42% of 283.50 = 119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = $85.5 \times 50 / 100$	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = $85.5 \times 50 / 100$	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = $70.88 \times 50 / 100$	cum	35.44	1350.00	47844.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = $70.88 \times 50 / 100$	cum	35.44	1400.00	49616.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = $283.5 \times 40 / 100$	cum	119.07	1400.00	166698.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	275.00	106.13	29185.77
777	Dry hydrated lime (factory made)	quintal	127.60	290.00	37004.00
2208	Carriage of Lime (considering density of lime as 1.29 T per cum) $V = 12.758 / 1.29 = 9.89$ cum MACHINERY/ HIRE CHARGES:	cum	9.89	106.13	1049.63
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead) $450 \times 10 = 4500$ tonne km.	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller	hour	3.90	1200.00	4680.00
	Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)				
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.)	day	5.00	320.83	1604.15
	for checking line & levels Total				1625304.38 W
	Add 1 % Water charges on "W"				16253.04
	TOTAL				1641557.42 X
	Add GST (multiplying factor 0.1405) on "X"				230638.82
	TOTAL				1872196.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				280829.44
	Total				2153025.68 Z
	Add Cess @ 1% on "Z"				21530.26
	Cost for 191 cum(450 Tonne)				2174555.93
	Cost per cum.				11385.11
	Say				11385.10

16.57.7 40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.

Details of cost for 191 cum (450 tonnes)

MATERIAL

312	Bitumen grade PMB - 40	M.T.	24.75	32200.00	796950.00
	@5.50% (percentage by weight of total mix				
2211	Carriage of Tar bitumen	tonne	24.75	106.13	2626.72
	Aggregate				
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75 =				
	425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5				
	=283.50cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50 = 85.05				
	cum				
	10 - 5mm size = 25% of 283.50 =				
	70.88 cum				
	5mm and below = 42% of 283.50 =				
	119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 85.5 * 50 /100	cum	42.525	1350.00	57408.75
297	Stone Aggregate (Single size) : 10 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1350.00	47844.00
298	Stone Aggregate (Single size) : 06 mm nominal size Qty = 70.88 * 50 /100	cum	35.44	1400.00	49616.00
2903	Stone chippings/ screenings 4.75 mm nominal size Qty = 283.5 * 40 /100	cum	119.07	1400.00	166698.00
2202	Carriage of Stone aggregate below 40 mm nominal size Lime Filler @ 2% (percentage by weight of aggregate)	cum	275.00	106.13	29185.77
777	Dry hydrated lime (factory made)	quintal	127.60	290.00	37004.00
2208	Carriage of Lime (consitering density of lime as 1.29 T per cum) V = 12.758/1.29 = 9.89 cum MACHINERY/ HIRE CHARGES:	cum	9.89	106.13	1049.63
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead)	hour	6.00	900.00	5400.00
053	450x10=4500 tonne km. Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)	hour	3.90	1200.00	4680.00
	LABOUR				
0028	Mate	day	0.84	320.83	269.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1363696.88 W
	Add 1 % Water charges on "W"				13636.97
	TOTAL				1377333.85 X
	Add GST (multiplying factor 0.1405) on "X"				193515.41
	TOTAL				1570849.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				235627.39
	Total				1806476.64 Z
	Add Cess @ 1% on "Z"				18064.77
	Cost for 191 cum(450 Tonne)				1824541.41
	Cost per cum.				9552.57
	Say				9552.55
16.57.8	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.				
	Details of cost for 191 cum (450 tonnes)				
	MATERIAL				
7741	Modified Bitumen Refinery produced CRMB - 60 @5.50% (percentage by weight of total mix	tonne	24.75	30536.00	755766.00
2211	Carriage of Tar bitumen Aggregate	tonne	24.75	106.13	2626.72
	Total weight of mix = 450 tonnes				
	Weight of bitumen = 24.75 tonnes				
	Weight of aggregate = 450 -24.75 = 425.25 tonnes				
	Taking density of aggregate = 1.5 tonne/cum				
	Volume of aggregate =425.25/1.5 = 283.50cum				
	Grading - II/19 mm (Nominal Size)				
	13.2 - 10mm size = 30% of 283.50 = 85.05 cum				
	10 - 5mm size = 25% of 283.50 = 70.88 cum				
	5mm and below = 42% of 283.50 = 119.07 cum				
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	42.525	1350.00	57408.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	42.525	1350.00	57408.75
	Qty = 85.5 * 50 /100				
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	35.44	1350.00	47844.00
	Qty = 70.88 * 50 /100				
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	35.44	1400.00	49616.00
	Qty = 70.88 * 50 /100				
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	119.07	1400.00	166698.00
	Qty = 283.5 * 40 /100				
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	275.00	106.13	29185.77
	Lime Filler @ 2% (percentage by weight of aggregate)				
777	Dry hydrated lime (factory made)	quintal	127.60	290.00	37004.00
2208	Carriage of Lime	cum	9.89	106.13	1049.63
	(consitering density of lime as 1.29 T per cum) V = 12.758/1.29 = 9.89 cum MACHINERY/ HIRE CHARGES:				
074	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	6.00	12000.00	72000.00
064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	6.00	1500.00	9000.00
069	Generator 250 KVA	hour	6.00	350.00	2100.00
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity (Taken 10Km average lead)	hour	6.00	900.00	5400.00
	450x10=4500 tonne km.				
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
055	Smooth Wheeled Roller 8 to 10 tonne for initial break down rolling.(6*0.65)	hour	3.90	300.00	1170.00
054	Vibratory roller 8 to 10 tonne for intermediate rolling.(6*0.65)	hour	3.90	600.00	2340.00
056	Tandem Road Roller	hour	3.90	1200.00	4680.00
	Finish rolling with 6-8 tonnes smooth wheeled tandem roller.(6*0.65)				
	LABOUR				
0028	Mate	day	0.84	320.83	269.50
0017	Beldar working with HMP, mechanical broom, paver, roller, asphalt cutter and assistance for setting out lines, levels and layout of construction	day	14.00	320.83	4491.62
0037	Skilled Beldar (for floor rubbing etc.) for checking line & levels	day	5.00	320.83	1604.15
	Total				1322512.88 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				13225.13
	TOTAL				1335738.01 X
	Add GST (multiplying factor 0.1405) on "X"				187671.19
	TOTAL				1523409.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				228511.38
	Total				1751920.58 Z
	Add Cess @ 1% on "Z"				17519.21
	Cost for 191 cum(450 Tonne)				1769439.78
	Cost per cum.				9264.08
	Say				9264.10

16.59 Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing , specification and direction of Engineer--in-charge.

16.59.1 Mandatory/ Regulatory sign boards of 900 mm diameter with support length of 3750 mm

Details cost for 1 no. of 0.636 sqm

MATERIAL

Aluminium sheet 2 mm thick

$3.14/4 \times (0.9) \times (0.9) = 0.636 \text{ sqm}$

add 10% wastage = 0.064 i.e. 0.700sqm

@ 5.60kg/ sqm = 3.92kg

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	3.92	240.00	940.80
2302	Carriage of G.I. sheet and accessories 3.92kg or 0.00392 MT High intensity retro reflective sheet = 0.70 sqm. High intensity sheet for lettering / sign and border etc. Taking 40% Area =0.28sqm, total = 0.70 + 0.28 = 0.98 sqm	tonne	0.00392	94.34	0.37
8690	High intensity retro - reflective sheet Steel work Supporting frame 25x25x3mm for 900mm dia board:- 3.14D=3.1416x0.90=2.83 metre @ 1.10kg/m =3.11kg Angle iron 35x35x.5mm for fixing the support frame with vertical Tee-iron support post 2x0.05=0.10m @ 2.6 kg/m = 0.26kg Vertical post of M.S. tee of section ISNT 50x50x6mm = 3.75 metre @ 4.50kg/m = 16.88 kg Bass plate to be welded at bottom end of tee (As hold fast) (100x100x5mm)x7850/133=0.39kg, total = 3.11 + 0.26 +16.88 + 0.39 = 20.64kg. Add wastage @ 5% = 1.03 Total = 20.64 + 1.03 = 21.67kg.	sqm	0.98	1300.00	1274.00
10.2	Rate as per item no 10.2 of SH : Steel work LABOUR	kg	21.67	86.65	1877.71 A
0028	Mate	day	0.01	320.83	3.21
0017	Beldar	day	0.25	320.83	80.21
9999	Cost of material for drilling holes, nut bolts & rivets, fabrication etc. Painting with synthetic enamel paint on steel work support frame 25x25x3mm =2.83x0.10=0.283 sqm Fixing angle 35x35x5mm = 2x0.50x0.14=0.014 sqm Vertical post Tee 50x50x6mm =3.75x0.20=0.750sqm Base plate 100x100x5mm Surface area = 2x[0.10x0.10] =0.02 4x0.10x0.005 = 0.002 Total = 1.069 sqm	L.S.	65.00	2.00	130.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.61.1	Rate as per item no 13.61.1 of SH : Finishing Painting with epoxy paint on back side of aluminium sheet.	sqm	1.07	82.40	88.16 A
13.52.1	Rate as per Item no. 13.52.1 of SH: Finishing	sqm	0.636	132.50	84.27 A
9999	Sundries and hold fast etc.	L.S.	78.00	2.00	156.00
	Total				4634.73 W
	Add 1 % Water charges on "W-A"	2584.59			25.85
	TOTAL				4660.57 X
	Add GST (multiplying factor 0.1405) on "X"	2610.43			366.77
	TOTAL				5027.34 Y
	Add 15 % Contractor's profit and overheads on "Y"	2977.20			446.58
	Total				5473.92 Z
	Add Cess @ 1% on "Z"	3423.78			34.24
	Cost of 1 no.				5508.16
	Say				5508.15

16.59.2 Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm

Details cost for 1 board of 0.35 sqm

MATERIAL

Aluminium sheet 2 mm thick Area

$1/2 \times (0.9) \times (0.78) = 0.35 \text{ sqm}$

add 10% wastage = 0.04 i.e. 0.39sqm @

5.60kg/ sqm = 2.18kg

2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	2.18	240.00	523.20

2302	Carriage of G.I. sheet and accessories	tonne	0.00218	94.34	0.21

2.18kg or 0.00218 MT

High intensity retro reflective sheet = 0.39 sqm.

High intensity sheet for lettering / sign/ symbol/ border etc.

Taking 40% Area = 0.16sqm, total = 0.39 + 0.16 = 0.55 sqm

8690	High intensity retro - reflective sheet	sqm	0.55	1300.00	715.00

Steel work

Angle iron frame 25x25x3mm 3x0.90=

2.70 metre

@ 1.10kg/m = 2.97kg

Angle iron 35x35x.5mm for fixing the support frame to Tee- iron support post 2x0.05=0.10m

@ 2.6 kg/m = 0.26kg

Vertical post of M.S. tee of section

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	ISNT 50x50x6mm = 1x3.65=3.65m @ 4.50kg/m =16.43kg Bass plate 100x100x5mm connected to bottom end of vertocal tee. (0.10x0.10x0.005x7850kg =0.39kg, total = 2.97 + 0.26 + 16.43 + 0.39 = 20.05kg. Add wastage @ 5% = 1.00, total = 20.05 + 1.00 = 21.05kg				
10.2	Rate as per item no 10.2 of SH : Steel work	kg	21.05	86.65	1823.98 A
	LABOUR				
0028	Mate	day	0.01	320.83	3.21
0017	Beldar	day	0.25	320.83	80.21
9999	Cost of material for drilling holes, nut bolts & rivets, fabrication etc. Painting with synthetic enamel paint on Angle iron . support frame 25x25x3mm =1x2.7x0.10=0.27 sqm. Angle 35x35x5mm = 2x0.50x0.14=0.014 sqm Tee 50x50x6mm =1x3.65x0.20 =0.73sqm Base plate to be welded at bottom end of Tee 100x100x5mm 0.022 sqm Total = 1.036 sqm	L.S.	65.00	2.00	130.00
13.61.1	Rate as per item no 13.61.1 of SH : Finishing Painting with epoxy paint on back side of aluminium sheet. 0.35 sqm	sqm	1.036	82.40	85.36 A
13.52.1	Rate as per Item no. 13.52.1 of SH: Finishing	sqm	0.35	132.50	46.38 A
9999	Sundries & hold fast etc.	L.S.	65.00	2.00	130.00
	Total				3537.54
	Add 1 % Water charges on "W-A"	1581.82			15.82
	TOTAL				3553.36 X
	Add GST (multiplying factor 0.1405) on "X-A"	1597.64			224.47
	TOTAL				3777.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1822.11			273.32
	Total				4051.14 Z
	Add Cess @ 1% on "Z-A"	2095.42			20.95
	Cost of 1 board.				4072.10
	Say				4072.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.60	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the Engineer-incharge.(Structural frame work including M.S. plate to be provided separately.				

Rectangular area of the sheet only shall be measured for payment).

16.60.1 Overhead informatory road signage

Details of cost for boards area 3.00x1.20

=3.60 sqm

MATERIAL

2704	Aluminium Strip 40 mm wide and 2 mm thick Add 5% wastage = 1.01 kg	kilogram	21.17	240.00	5080.80
	Total = 20.16 + 1.01 = 21.17 kg.				
2302	Carriage of G.I. sheet and accessories high intensity sheet for written matter. Taking 40% 3.60x40% = 1.44 sqm. Total = 3.60 + 1.44 = 5.04 sqm.	tonne	0.02117	94.34	2.00
8690	High intensity retro - reflective sheet	sqm	5.04	1300.00	6552.00
588	Chromium plated Brass screws 25 mm for peripheries = $2 \times (300 + 120) / 30 = 28$ nos. For vertical Rows = $2 \times (120 / 30 - 2) = 4$ nos. Total = 28 + 4 = 32 nos. For wastage @ 5% = 2 nos. Total = 32 + 2 = 34 nos. Labour charges for drilling holes	100 Nos	0.34	180.00	61.20
9999	Hire charges of drill machine and sundries	L.S.	52.00	2.00	104.00
9999	Hoisting board Labour charges for manufacturing of board including .	L.S.	390.00	2.00	780.00
9999	fixing retro reflective sheet	L.S.	564.20	2.00	1128.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Painting with epoxy paint on back side of Aluminium sheet,				
13.52.1	Rate as per Item no. 13.52.1 of SH: Finishing	sqm	3.60	132.50	477.02 A
	Total				14185.41 w
	Add 1 % Water charges on "W-A"	13708.40			137.08
	TOTAL				14322.50 X
	Add GST (multiplying factor 0.1405) on "X-A"	13845.48			1945.29
	TOTAL				16267.79 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	15790.77			2368.62
	Total				18636.40 Z
	Add Cess @ 1% on "Z-A"	18159.39			181.59
	Cost of 3.60 sqm				18818.00
	Cost of 1 sqm.				5227.22
	Say				5227.20
16.61	Providing Retro-reflective regulatory sign board of size 900 mm dia meter made out of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4 mm. The boards will be fixed to 1 No. 50x50 mm square post made of M.S. angle 50x50x4 mm, 4 m long welded to the frame with adequate anti-theft arrangement .Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.				
	Details cost for one board of 0.635 sqm Aluminium sheet 2mm thick = 0.635 sqm. Add 10% wastage = 0.06 sqm, total = 0.635 + 0.06 = 0.695 sqm. Say 0.70 sqm @ 5.6kg/sqm = 3.98 kg MATERIAL				
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogra	3.98	240.00	955.20
	High intensity retro reflective sheet = 0.70 sqm	m			
	high intensity sheet for lettering/ sing and border etc.				
	Taking 40% Area=0.28 sqm, total = 0.70 + 0.28 = 0.98 sqm.				
8690	High intensity retro - reflective sheet	sqm	0.98	1300.00	1274.00
	Angle iron 40x40x4mm = 4x0.60=2.40@				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2.4kg/ mtr = 5.76 kg 50x50x5 mm = 2x4m =8m @ 3kg/ mtr =24.00 kg Total = 5.76 + 24.00 = 29.76 kg				
10.2	Rate as per item no 10.2 of SH : Steel work LABOUR	kg	29.76	86.65	2578.70 A
0028	Mate	day	0.01	320.83	3.21
0017	Beldar	day	0.25	320.83	80.21
9999	Cost of material for drilling holes, nut bolts & rivets, facrication etc. @ 2% on (X + Y + A). (e) Painting with synthetic enamel paint 1x2.40.12=0.29 sqm 1x4.00x0.12=0.80 sqm, Total = 0.29 + 0.80 = 1.09 sqm	L.S.	70.23	2.00	140.46
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	1.09	82.40	89.81 A
13.52.1	Painting with epoxy paint on back side of aluminium sheet, Rate as per Item no. 13.52.1 of SH: Finishing	sqm	0.635	132.50	84.14 A
9999	Sundries & hole fast etc,	L.S.	31.20	2.00	62.40
	Total				5268.13 w
	Add 1 % Water charges on "W-A"	2515.48			25.15
	TOTAL				5293.29 X
	Add GST (multiplying factor 0.1405) on "X-A"	2540.63			356.96
	TOTAL				5650.24 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2897.59			434.64
	Total				6084.88 Z
	Add Cess @ 1% on "Z-A"	3332.23			33.32
	Cost for 1 board				6118.21
	Say				6118.20

16.62 Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.

Details of cost for 200 sqm (Area covered on one day):-

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Thermoplastic paint screeded in paint form for 2.5 mm thick road making stripe including glass beads etc. as pe specifications 200 sqm @ 5kg/ sqm = 1000 kg Wastage @ 5% = 50kg Total = 1050 kg				
8687	Thermoplastic paint	kg	1050.00	65.00	68250.00
	Glass beads (B-class) to be sprayed over the paint stripe @ 250 gms. Per sqm = 100x0.25=25 ka				
8688	Glass beads	kg	50.00	70.00	3500.00
	MACHINERY				
033	Paint applicator.	day	1.00	750.00	750.00
078	Hire charges of TATA 407 or equivalent for local shifting.	day	1.00	1200.00	1200.00
1241	Commercial LPG in cylinder.	kg	142.00	82.00	11644.00
	LABOUR				
0042	Operator (Pile/ Special machine)	day	1.00	392.00	392.00
0037	Skilled Beldar (for floor rubbing etc.)	day	4.00	320.83	1283.32
0017	Beldar	day	4.00	320.83	1283.32
	Total				88302.64 w
	Add 1 % Water charges on "W"				883.03
	TOTAL				89185.67 X
	Add GST (multiplying factor 0.1405) on "X"				12530.59
	TOTAL				101716.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				15257.44
	Total				116973.69 Z
	Add Cess @ 1% on "Z"				1169.74
	Cost for 200 sqm				118143.43
	Cost per sqm				590.72
	Say				590.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.63	Providing, laying and making kerb channel 30 cm wide and 50 mm thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth etc. complete and as per direction of Engineer-in-charge.				
	Details of cost for 10 sqm.				
	METERIAL				
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	1.00	650.00	650.00
2260	Carriage of Brick aggregate	cum	1.00	115.36	115.36
6501	Sand zone V (Jamuna)	cum	0.08	1225.00	98.00
2335	Carriage of Sand	cum	0.08	106.13	8.49
	Labour for spreading, ramming and consolidation.				
0017	Beldar	day	0.35	320.83	112.29
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	day	0.18	320.83	57.75
	Cement concrete-1:3:6				
4.1.6	Rate as per item no 4.1.6 of SH : Concrete	cum	0.50	5291.95	2645.98 A
	Work				
	Total				3771.28 w
	Add 1 % Water charges on "W-A"	1125.30			11.25
	TOTAL				3782.53 X
	Add GST (multiplying factor 0.1405) on "X-A"	1136.56			159.69
	TOTAL				3942.22 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1296.24			194.44
	Total				4136.66 Z
	Add Cess @ 1% on "Z-A"	1490.68			14.91
	Cost for 10 sqm.				4151.56
	Cost for 1 sqm.				415.16
	Say				415.15
16.64	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with Sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.				
	Details of cost for 10 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
METERIAL					
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	1.00	650.00	650.00
2260	Carriage of Brick aggregate	cum	1.00	115.36	115.36
6501	Sand zone V (Jamuna)	cum	0.08	1225.00	98.00
2335	Carriage of Sand	cum	0.08	106.13	8.49
Labour for spreading, ramming and consolidation.					
0017	Beldar	day	0.35	320.83	112.29
0018	Coolie	day	0.26	320.83	83.42
0011	Bhisti	day	0.18	320.83	57.75
Total					1125.30 w
Add 1 % Water charges on "W"					11.25
TOTAL					1136.56 X
Add GST (multiplying factor 0.1405) on "X"					159.69
TOTAL					1296.24 Y
Add 15 % Contractor's profit and overheads on "Y"					194.44
Total					1490.68 Z
Add Cess @ 1% on "Z"					14.91
Cost for 10 sqm.					1505.59
Cost for 1 sqm.					150.56
Say					150.55
16.65	Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-incharge.				
Details of cost for 1 no.					
MATERIAL					
8685	Delineator	each	1.00	300.00	300.00
9999	Fixing materials.	L.S.	78.00	2.00	156.00
9999	Fixing charges.	L.S.	39.00	2.00	78.00
Total					534.00 w
Add 1 % Water charges on "W"					5.34
TOTAL					539.34 X
Add GST (multiplying factor 0.1405) on "X"					75.78
TOTAL					615.12 Y
Add 15 % Contractor's profit and overheads on "Y"					92.27
Total					707.38 Z
Add Cess @ 1% on "Z"					7.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				714.46
	Say				714.45
16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.				
16.66.1	All kind of soil				
	Details of cost for 30 holes-				
	Earth work 30x0.10 = 3.0 cum.				
	Extra labour for filling and ramming				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	3.00	171.40	514.21 A
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				541.25 w
	Add 1 % Water charges on "W-A"		27.04		0.27
	TOTAL				541.52 X
	Add GST (multiplying factor 0.1405) on "X-A"		27.31		3.84
	TOTAL				545.36 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		31.15		4.67
	Total				550.03 Z
	Add Cess @ 1% on "Z-A"		35.82		0.36
	Cost of 30 holes				550.39
	Cost of 1 hole				18.35
	Say				18.35
16.67	Providing and fixing at or near ground level factory made RCC pavement slab of M30 grade of size 450x450x50 mm, including reinforcement with 6 mm dia M.S. bars 4 nos on each side, including setting in position in footpath to the required level and line over a bed of 20 mm average thick cement mortar 1:5 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer-in-charge.				
	Details of cost for 10 sqm				
	MATERIAL				
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	48.00	135.00	6480.00
9977	Carriage of slab.	L.S.	52.00	2.00	104.00
	20mm (bed and joints) CM. 1:5 (1 cement: 5 coarse sand)				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3462.65	865.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
LABOUR					
0040	Mason (average)	day	1.10	374.50	411.95
0010	Bandhani	day	1.10	320.83	352.91
0017	Beldar	day	0.55	320.83	176.46
0011	Bhisti	day	0.27	320.83	86.62
9999	Sundries	L.S.	10.79	2.00	21.58
Total					8499.19 w
Add 1 % Water charges on "W"					84.99
TOTAL					8584.18 X
Add GST (multiplying factor 0.1405) on "X"					1206.08
TOTAL					9790.26 Y
Add 15 % Contractor's profit and overheads on "Y"					1468.54
Total					11258.79 Z
Add Cess @ 1% on "Z"					112.59
Cost for 10 sqm.					11371.38
Cost for 1 sqm					1137.14
Say					1137.15
16.68	Providing and laying 60mm thick faciory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved s;ze, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.				
Details of cost for 10.00 sqm					
MATERIAL					
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	10.00	400.00	4000.00
Bedding layer - 50mm thick					
982	Coarse sand =10x0.050=0.50 cum	cum	0.50	1350.00	675.00
2203	Carriage of Coarse sand	cum	0.50	106.13	53.07
983	Fine sand	cum	0.15	900.00	135.00
2203	Carriage of Coarse sand	cum	0.15	106.13	15.92
Laying charges (Bassed on actual observation)					
LABOUR					
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	0.50	320.83	160.42
	Total				5785.48 w
	Add 1 % Water charges on "W"				57.85
	TOTAL				5843.33 X
	Add GST (multiplying factor 0.1405) on "X"				820.99
	TOTAL				6664.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				999.65
	Total				7663.97 Z
	Add Cess @ 1% on "Z"				76.64
	Cost for 10 sqm.				7740.61
	Cost for 1 sqm				774.06
	Say				774.05

16.69 Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).

Details of cost 100 metre i.e.

$100 \times 0.375 \times 0.20 = 7.50$ cum.

No. of kerb stones = $100 / 0.405 = 247$ Nos

Precast C.C. Kerb stone M - 25 =

$247 \times 0.40 \times 0.375 \times 0.20 = 7.41$ cum

MATERIAL

8686	Precast C.C. Kerb stone M - 25	cum	7.41	5500.00	40755.00

Mortar 1:3 for fixing joints = $246 \times 1 \times$

$[(0.115 + 0.20) / 2] \times 0.375 \times 0.005 = 0.073$ cum.

Cement mortar 1:3 (1 cement : 3 coarse sand)

3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.073	4469.50	326.27

Labour for fixing of kerb stones

0023	Mason (brick layer) 1st class	day	2.50	476.00	1190.00

0024	Mason (brick layer) 2nd class	day	2.50	374.50	936.25

0017	Beldar	day	2.50	320.83	802.08

0018	Coolie	day	1.65	320.83	529.37

	Total				44538.97 w

	Add 1 % Water charges on "W"				445.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				44984.36 X
	Add GST (multiplying factor 0.1405) on "X"				6320.30
	TOTAL				51304.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				7695.70
	Total				59000.36 Z
	Add Cess @ 1% on "Z"				590.00
	Cost of 7.50 cum				59590.36
	cost for 1 cum.				7945.38
	Say				7945.40

16.70 Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.

16.70.1 Made of G.I. wire of dia 4 mm

Details of cost for 10 sqm.

MATERIAL

G.I. chain link 50x50 mm mesh = 10.00 sqm.

Wastage @ 5% = 0.50 sqm.

Total = 10.50 sqm.

8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	10.50	280.00	2940.00
9977	Carriage.	L.S.	156	2.00	312.00
	LABOUR				
0013	Blacksmith 2nd class	day	2.14	374.50	801.43
0017	Beldar	day	1.62	320.83	519.74
9999	Sundries including G.I. wire, nuts and bolts and washers.	L.S.	174.75	2.00	349.50
	Total				4922.67 w
	Add 1 % Water charges on "W"				49.23
	TOTAL				4971.90 X
	Add GST (multiplying factor 0.1405) on "X"				698.55
	TOTAL				5670.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				850.57
	Total				6521.02 Z
	Add Cess @ 1% on "Z"				65.21
	Cost for 10 sqm.				6586.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 1 sqm.				658.62
	Say				658.60
16.70.2	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade				
	Details of cost for 10 sqm.				
	MATERIAL				
	G.I. chain link 50x50 mm mesh PVC coated = 10.00 sqm.				
	Wastage @ 5% = 0.50 sqm.				
	Total = 10.50 sqm.				
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	10.50	300.00	3150.00
9977	Carriage.	L.S.	156.00	2.00	312.00
	LABOUR				
0013	Blacksmith 2nd class	day	2.14	374.50	801.43
0017	Beldar	day	1.62	320.83	519.74
9999	Sundries including G.I. wire, nuts and bolts and washers.	L.S.	174.75	2.00	349.50
	Total				5132.67 w
	Add 1 % Water charges on "W"				51.33
	TOTAL				5184.00 X
	Add GST (multiplying factor 0.1405) on "X"				728.35
	TOTAL				5912.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				886.85
	Total				6799.21 Z
	Add Cess @ 1% on "Z"				67.99
	Cost for 10 sqm.				6867.20
	Cost for 1 sqm.				686.72
	Say				686.70

16.71 Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-incharge.

Details of cost for 10 sqm.

MATERIAL

G.I. chain link 25x25 mm mesh = 10.00 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wastage @ 5% = 0.50 sqm. Total = 10.50 sqm.				
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	10.50	360.00	3780.00
9977	Carriage. LABOUR	L.S.	156.00	2.00	312.00
0013	Blacksmith 2nd class	day	2.14	374.50	801.43
0017	Beldar	day	1.62	320.83	519.74
9999	Sundries including G.I. wire, nuts and bolts and warshers.	L.S.	174.75	2.00	349.50
	Total				5762.67 w
	Add 1 % Water charges on "W"				57.63
	TOTAL				5820.30 X
	Add GST (multiplying factor 0.1405) on "X"				817.75
	TOTAL				6638.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				995.71
	Total				7633.76 Z
	Add Cess @ 1% on "Z"				76.34
	Cost for 10 sqm.				7710.10
	Cost for 1 sqm.				771.01
	Say				771.00
16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.				
	Detail of cost for 2.25 cum				
	MATERIAL				
	22.5 cm thick stone (Hard)				
1158	Stone for pitching 15 cm x 22.5 cm	cum	2.25	600.00	1350.00
	Carriage by mechanical transport i/c loading unloading and stacking				
2215	Carriage of Soling stone & masonry stone	cum	2.25	124.86	280.93
	TOTAL				1630.93 w
	Add 1 % Water charges on "W"				16.31
	TOTAL				1647.24 X
	Add GST (multiplying factor 0.1405) on "X"				231.44
	TOTAL				1878.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				281.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2160.48 Z
	Add Cess @ 1% on "Z"				21.60
	Cost for 2.25 cum				2182.09
	Cost for one cum				969.82
	Say				969.80
16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).				
	Detail of cost for 10 sqm				
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.08	476.00	514.08
0024	Mason (brick layer) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	2.15	320.83	689.78
0018	Coolie	day	1.61	320.83	516.54
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				2138.38 w
	Add 1 % Water charges on "W"				21.38
	TOTAL				2159.76 X
	Add GST (multiplying factor 0.1405) on "X"				303.45
	TOTAL				2463.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				369.48
	Total				2832.69 Z
	Add Cess @ 1% on "Z"				28.33
	Cost for 10 sqm				2861.02
	Cost for one sqm				286.10
	Say				286.10
16.74	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :				
16.74.1	Moorum				
	Details of cost for 100 sqm				
	MATERIAL				
810	Moorum	cum	7.50	500.00	3750.00
	Carriage by mechanical transport i/c loading unloading and stacking				
2265	Carriage of Moorum	cum	7.50	106.13	795.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0017	Beldar	day	1.64	320.83	526.16
0011	Bhisti	day	0.13	320.83	41.71
	TOTAL				5113.84 w
	Add 1 % Water charges on "W"				51.14
	TOTAL				5164.98 X
	Add GST (multiplying factor 0.1405) on "X"				725.68
	TOTAL				5890.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				883.60
	Total				6774.26 Z
	Add Cess @ 1% on "Z"				67.74
	Cost for 100 sqm				6842.01
	Cost per sqm				68.42
	Say				68.40

16.74.2 Stone aggregate 20 mm nominal size

Detail of cost for 100 sqm

MATERIAL

295	Stone Aggregate (Single size) : 20 mm nominal size 100sqm x 7.50cm = 7.50 cum	cum	7.50	1350.00	10125.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	7.5	106.13	795.98
	LABOUR				
0017	Beldar	day	2.05	320.83	657.70
0011	Bhisti	day	0.13	320.83	41.71
	TOTAL				11620.38 w
	Add 1 % Water charges on "W"				116.20
	TOTAL				11736.59 X
	Add GST (multiplying factor 0.1405) on "X"				1648.99
	TOTAL				13385.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				2007.84
	Total				15393.42 Z
	Add Cess @ 1% on "Z"				153.93
	Cost for 100 sqm				15547.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per sqm				155.47
	Say				155.45
16.74.3	Stone aggregate 40 mm nominal size				
	Detail of cost for 100 sqm				
	MATERIAL				
293	Stone Aggregate (Single size) : 40 mm nominal size 100sqm x 7.50cm = 7.50 cum	cum	7.50	1300.00	9750.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	7.50	115.36	865.19
	LABOUR				
0017	Beldar	day	2.05	320.83	657.70
0011	Bhisti	day	0.13	320.83	41.71
	TOTAL				11314.60 w
	Add 1 % Water charges on "W"				113.15
	TOTAL				11427.75 X
	Add GST (multiplying factor 0.1405) on "X"				1605.60
	TOTAL				13033.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				1955.00
	Total				14988.35 Z
	Add Cess @ 1% on "Z"				149.88
	Cost for 100 sqm				15138.23
	Cost per sqm				151.38
	Say				151.40
16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).				
	Details of cost for 1.00 cum				
	MATERIAL				
	Ready mix concrete M 25 = 1.00 cum. i/c placing of concrete, vibrating, leveling etc.				
5.37.1	Rate as per Item No.5.37.1 of SH:RCC	cum	1	7336.25	7336.25 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Operational charges for vacuum dewatering system i/c screed vibration , placing of filter mat , top mat, vacuum process, floating , troweling, Brooming etc.	L.S.	57.2	2.00	114.40
9999	T& P charges i/c consumable power charges, loading , unloading and hire charges of equipments	L.S.	41.6	2.00	83.20
	Total				7533.85 w
	Add 1 % Water charges on "W-A"	197.60			1.98
	TOTAL				7535.83 X
	Add GST (multiplying factor 0.1405) on "X-A"	199.58			28.04
	TOTAL				7563.87 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	227.62			34.14
	Total				7598.01 Z
	Add Cess @ 1% on "Z-A"	261.76			2.62
	Cost for 1 cum				7600.63
	Say				7600.65
16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.				
	Details of cost for 1 cum.				
	Cement for M-25 mix = 0.410 t				
	Cement for M - 20 mix = 0.383 t				
	Difference = 0.027 t				
	MATERIAL				
367	Portland Cement (OPC-43 grade)	tonne	0.027	4940.00	133.38
2209	Carriage of Cement	tonne	0.027	94.34	2.55
	Plasticizer for M- 25 mix = 2.050kg				
	Plasticizer for M- 20 mix = 1.915 kg				
	Difference = 0.135 kg				
7318	Plasticizer / super plasticizer	kilogram	0.135	36.00	4.86
	Total				140.79 w
	Add 1 % Water charges on "W"				1.41
	TOTAL				142.19 X
	Add GST (multiplying factor 0.1405) on "X"				19.98
	TOTAL				162.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.33
	Total				186.50 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				1.86
	Cost for 1 cum.				188.36
	Say				188.35
16.77	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1km (by mechanical means).				
	Details of cost for 100 sqm				
	LABOUR				
0028	Mate	day	0.01	320.83	3.21
0017	Beldar	day	0.25	320.83	80.21
	MACHINERY				
038	Tractor with ripper attachment.	day	0.01	1200.00	12.00
014	Front end loader capacity 1.00 cum	day	0.025	6000.00	150.00
017	Hire and running charges of tipper	day	0.02875	1700.00	48.88
	TOTAL				294.29 w
	Add 1 % Water charges on "W"				2.94
	TOTAL				297.23 X
	Add GST (multiplying factor 0.1405) on "X"				41.76
	TOTAL				339.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.85
	Total				389.84 Z
	Add Cess @ 1% on "Z"				3.90
	Cost for 100 sqm				393.74
	Cost for 1 sqm				3.94
	Say				3.95
16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 225 cum (450 tonnes)					
MATERIAL					
Close graded graunlar sub-base material as					
per Grading-I of specifications					
53mm to 9.5mm @ 50% = 144 cum					
9.5 mm to 2.36mm @ 20% = 57 cum					
2.36mm below @ 30% = 86.40 cum					
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	72.00	1000.00	72000.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	72.00	1350.00	97200.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	72.00	115.36	8305.83
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	72.00	106.13	7641.36
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	57.00	900.00	51300.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	57.00	106.13	6049.41
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	43.20	1400.00	60480.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	43.20	1400.00	60480.00
2203	Carriage of Coarse sand Machinery/ Hire charges:	cum	86.40	106.13	9169.64
059	Wet Mix Plant 60 TPH @75 tonne capacity	hour	6.00	800.00	4800.00
070	Generator 100 KVA/125 KVA	hour	6.00	250.00	1500.00
057	Water Tanker 5 to 6 KL capacity 5 km lead with one trip per hour	hour	4.50	150.00	675.00
052	Front end loader 1 cum bucket capacity	hour	6.00	900.00	5400.00
(incl POL)					
Tipper 10 tonne capacity(taking lead= 10 Km) =450x10 =4500 t.Km					
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
Add 10 per cent of cost of carriage to cover cost of loading and unloading					1350.00
050	Motor Grader 3.35 metre blade	hour	6.00	2450.00	14700.00
054	Vibratory roller 8 to 10 tonne	hour	6.00	600.00	3600.00
LABOUR					
0028	Mate	day	0.40	320.83	128.33
0037	Skilled Beldar (for floor rubbing etc.)	day	2.00	320.83	641.66
0017	Beldar	day	8.00	320.83	2566.64
Total					421487.88 w
Add 1 % Water charges on "W"					4214.88
TOTAL					425702.76 X
Add GST (multiplying factor 0.1405) on "X"					59811.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				485513.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				72827.10
	Total				558341.09 Z
	Add Cess @ 1% on "Z"				5583.41
	Cost for 225 cum(450 Tonne)				563924.50
	Cost per cum.				2506.33
	Say				2506.35

16.78.2 With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25

Details of cost for 225 cum (450 tonnes)

MATERIAL

Close graded graunlar sub-base material as per Grading-I of specifications

26.5mm to 9.5mm @ 35% = 100.80 cum

9.5 mm to 2.36mm @ 25% = 72 cum

2.36mm below @ 40% = 115.20 cum

294	Stone Aggregate (Single size) : 25 mm nominal size	cum	50.40	1350.00	68040.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	50.40	1350.00	68040.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	100.80	106.13	10697.91
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	72.00	900.00	64800.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	72.00	106.13	7641.36
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	57.60	1400.00	80640.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	57.60	1400.00	80640.00
2203	Carriage of Coarse sand Machinery/ Hire charges:	cum	115.20	106.13	12226.18
059	Wet Mix Plant 60 TPH @75 tonne capacity	hour	6.00	800.00	4800.00
070	Generator 100 KVA/125 KVA	hour	6.00	250.00	1500.00
057	Water Tanker 5 to 6 KL capacity 5 km lead with one trip per hour	hour	4.50	150.00	675.00
052	Front end loader 1 cum bucket capacity	hour	6.00	900.00	5400.00
	(incl POL)				
	Tipper 10 tonne capacity(taking lead= 10 Km) =450x10 =4500 t.Km				
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
050	Motor Grader 3.35 metre blade	hour	6.00	2450.00	14700.00
054	Vibratory roller 8 to 10 tonne	hour	6.00	600.00	3600.00
	LABOUR				
0028	Mate	day	0.40	320.83	128.33
0037	Skilled Beldar (for floor rubbing etc.)	day	2.00	320.83	641.66
0017	Beldar	day	8.00	320.83	2566.64
	Total				441587.09 w
	Add 1 % Water charges on "W"				4415.87
	TOTAL				446002.96 X
	Add GST (multiplying factor 0.1405) on "X"				62663.42
	TOTAL				508666.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				76299.96
	Total				584966.33 Z
	Add Cess @ 1% on "Z"				5849.66
	Cost for 225 cum(450 Tonne)				590815.99
	Cost per cum.				2625.85
	Say				2625.85

16.78.3 With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20

Details of cost for 225 cum (450 tonnes)

MATERIAL

Close graded graunlar sub-base material as per Grading-III of specifications

9.5mm to 4.75mm @ 35% = 100.80 cum

4.75 mm to 2.36mm @ 12.5% = 36.00 cum

2.36mm below @ 52.5% = 151.20 cum

1179	Crushed stone 2.36 mm to 12.5 mm size	cum	100.80	900.00	90720.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	100.80	106.13	10697.91
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	36.00	900.00	32400.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	36.00	106.13	3820.68
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	75.60	1400.00	105840.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	75.60	1400.00	105840.00
2203	Carriage of Coarse sand Machinery/ Hire charges:	cum	151.20	106.13	16046.86
059	Wet Mix Plant 60 TPH @75 tonne capacity	hour	6.00	800.00	4800.00
070	Generator 100 KVA/125 KVA	hour	6.00	250.00	1500.00
057	Water Tanker 5 to 6 KL capacity 5 km lead with one trip per hour	hour	4.50	150.00	675.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
052	Front end loader 1 cum bucket capacity (incl POL) Tipper 10 tonne capacity(taking lead= 10 Km) =450x10 =4500 t.Km	hour	6.00	900.00	5400.00
053	Tipper -5 Cum	tonne km	4500.00	3.00	13500.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1350.00
050	Motor Grader 3.35 metre blade	hour	6.00	2450.00	14700.00
054	Vibratory roller 8 to 10 tonne	hour	6.00	600.00	3600.00
	LABOUR				
0028	Mate	day	0.40	320.83	128.33
0037	Skilled Beldar (for floor rubbing etc.)	day	2.00	320.83	641.66
0017	Beldar	day	8.00	320.83	2566.64
	Total				414227.09 w
	Add 1 % Water charges on "W"				4142.27
	TOTAL				418369.36 X
	Add GST (multiplying factor 0.1405) on "X"				58780.90
	TOTAL				477150.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				71572.54
	Total				548722.79 Z
	Add Cess @ 1% on "Z"				5487.23
	Cost for 225 cum(450 Tonne)				554210.02
	Cost per cum.				2463.16
	Say				2463.15

16.79 Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.

Details of cost for 225 cum (495 tonne)

MATERIAL

Conforming to table

45mm to 22.4mm @ 30% = 89.10 cum

Qty for 0292, 0293, 0294, 0295 codes =

89.10 / 4 = 22.275 cum

Qty for 2206, 2202 codes = 89.10 / 2 = 4

4.55 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	22.4 mm to 2.36mm @ 40% = 118.80 cum				
	Qty for 0294,0295 codes = 118.80 /4				
	= 29.70 cum				
	Qty for 1179 code = 118.80 /2 = 59.40 cum				
	2.36 mm to 75 microon @ 30% = 89.10 cum				
	Qty for =M!A880, 2904 codes = 89.10 / 2				
	= 44.55 cum				
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	22.275	1000.00	22275.00
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	22.275	1300.00	28957.50
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	22.275	1350.00	30071.25
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	22.275	1350.00	30071.25
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	44.55	115.36	5139.23
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	44.55	106.13	4728.09
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	29.70	1350.00	40095.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	29.70	1350.00	40095.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	59.40	900.00	53460.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	118.80	106.13	12608.25
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	44.55	1400.00	62370.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	44.55	1400.00	62370.00
2203	Carriage of Coarse sand Machinery/ Hire charges:	cum	89.10	106.13	9456.19
059	Wet Mix Plant 60 TPH @75 tonne capacity	hour	6.60	800.00	5280.00
070	Generator 100 KVA/125 KVA	hour	6.00	250.00	1500.00
057	Water Tanker 5 to 6 KL capacity 5 km lead with one trip per hour	hour	3.00	150.00	450.00
052	Front end loader 1 cum bucket capacity	hour	6.00	900.00	5400.00
	(incl POL)				
	Tipper 10 tonne capacity(taking lead= 10 Km) =450x10 =4500 t.Km				
053	Tipper -5 Cum	tonne km	4950.00	3.00	14850.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				1485.00
065	Paver finisher Mechanical 100 TPH	hour	6.00	800.00	4800.00
054	Vibratory roller 8 to 10 tonne	hour	3.90	600.00	2340.00
	LABOUR				0.00
0028	Mate	day	0.48	320.83	154.00
0037	Skilled Beldar (for floor rubbing etc.)	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	10.00	320.83	3208.30
	Total				441805.72 w
	Add 1 % Water charges on "W"				4418.06
	TOTAL				446223.78 X
	Add GST (multiplying factor 0.1405) on "X"				62694.44
	TOTAL				508918.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				76337.73
	Total				585255.96 Z
	Add Cess @ 1% on "Z"				5852.56
	Cost for 225 cum(450 Tonne)				591108.52
	Cost per cum.				2627.15
	Say				2627.15
16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.				
	Details of cost for 450 cum (990 tonne)				
	MATERIAL				
	Crushed stone coarse aggregate of 25mm & 12.5 mm nominal sizes graded as per specifications @ 0.90 cum/cum of concrete conforming to specification. = 405 cum Coarse Sand @0.45 m3 per cum of concrete = 203 cum				
	Cement @150 Kg. per cum of concrete = 67.50 cum				
	Qty for 0294,0296 codes = 405 / 2 = 202.50 cum				
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	202.50	1350.00	273375.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	202.50	1350.00	273375.00
982	Coarse sand	cum	203.00	1350.00	274050.00
367	Portland Cement (OPC-43 grade)	tonne	67.50	4940.00	333450.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	405.00	106.13	42982.67
2203	Carriage of Coarse sand	cum	203.00	106.13	21544.40
2209	Carriage of Cement	tonne	67.50	94.34	6367.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Machinery/ Hire charges:				
052	Front end loader 1 cum bucket capacity (incl POL) @75 tonne capacity	hour	6.00	900.00	5400.00
066	Batching and Mixing Plant @ 75 cum per hour	hour	6.00	2400.00	14400.00
069	Generator 250 KVA 5 km lead with one trip per hour	hour	6.00	350.00	2100.00
065	Paver finisher Mechanical 100 TPH	hour	6.00	800.00	4800.00
054	Vibratory roller 8 to 10 tonne	hour	8.00	600.00	4800.00
057	Water Tanker 5 to 6 KL capacity	hour	8.00	150.00	1200.00
053	Tipper -5 Cum	tonne km	9900.00	3.00	29700.00
	Add 10 per cent of cost of carriage to cover cost of loading and unloading				2970.00
	LABOUR				
0028	Mate	day	1.12	320.83	359.33
0037	Skilled Beldar (for floor rubbing etc.)	day	6.00	320.83	1924.98
0017	Beldar	day	22.00	320.83	7058.26
	Total				1299857.45 w
	Add 1 % Water charges on "W"				12998.57
	TOTAL				1312856.02 X
	Add GST (multiplying factor 0.1405) on "X"				184456.27
	TOTAL				1497312.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				224596.84
	Total				1721909.14 Z
	Add Cess @ 1% on "Z"				17219.09
	Cost for 450 cum(990 Tonne)				1739128.23
	Cost per cum.				3864.73
	Say				3864.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

16.81 Providing and erecting 2.00 metre high temporary barricading at site as per drawing/ direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.“(Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).

Details of cost for 2.5 metre

MATERIAL

16.81X	Rate as per Sub Analysis No.16.81X	metre	2.50	43.15	107.87
16.81Y	Rate as per Sub Analysis No.16.81Y	metre	2.50	806.45	2016.12
13.50.3	Rate as per Item No.13.50.3 of	sqm	11.00	33.30	366.30 A
	SH: FINISHING				
13.61.1	Rate as per Item No.13.61.1 of	sqm	11.00	82.40	906.40 A
	SH: FINISHING				
	TOTAL				3396.69 w
	Add 1 % Water charges on "W-A"	2123.99			21.24
	TOTAL				3417.93 X
	Add GST (multiplying factor 0.1405) on "X"	2145.23			301.40
	TOTAL				3719.33 Y
	Add 15 % Contractor's profit and overheads on "Y"	2446.63			366.99
	Total				4086.33 Z
	Add Cess @ 1% on "Z"	2813.63			28.14
	Cost of 2.5 metre				4114.46
	Cost of 1 metre				1645.78
	Say				1645.80

16.81X Sub analysis item for material component of Item No. 16.81

Sub analysis item no.16.81X to be used in

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Item No. 16.81				
	Details of cost for 2.5 meter				
	MATERIAL				
	M.S. Sheet 1.63mm thick = $1 \times 2.50 \times 2.00 = 5.00$ sqm @ 12.80 kg/sqm = 64.00 kg wastage @ 5% = 3.20 kg				
1013	Total = 67.20 kg	quintal	0.672	4600.00	3091.20
	Mild steel sheets for tanks				
	MS Angle - 40 x 40 x 6 mm				
	Outframe = $2 \times (2.50 + 2.00) = 9.00$ m				
	Vertical extra = $2 \times 0.300 = 0.60$ m				
	Horizontal = $1 \times 2.50 = 2.50$ m				
	Bracing = $2 \times 3.20 = 6.40$ m				
	Bracing at bottom = $2 \times 0.50 = 1.00$ m				
	Total = 19.50 m @ 3.50 kg/m = 68.25 kg + wastage @ 5% = 3.14 kg				
	Total = 71.66 kg				
1007	Structurals such as tees, angles channels and R.S. joists	quintal	0.717	4600.00	3298.20
	M.S. Channel = $2 \times 0.50 = 1.00$ m @ 5.70 kg/m = 5.70 kg + wastage @ 5% = 0.29 kg				
	Total = 5.99 kg				
1007	Structurals such as tees, angles channels and R.S. joists	quintal	0.0599	4600.00	275.54
	M.S. Flat 30x5 mm				
	Horizontal = $2 \times 2.50 = 5.00$ m				
	Vertical = $2 \times 2.00 = 4.00$ m				
	Total = 9.00 m @ 1.20 kg/m = 10.80 kg + wastage @ 5% = 0.54 kg				
	Total = 11.34 kg				
1008	Flats upto 10 mm in thickness	quintal	0.1134	4500.00	510.30
2205	Carriage of Steel	tonne	0.156	94.34	14.72
	TOTAL				7189.96
	Add for maintenance @ 10% on				719.00
	Less for salvage value of material @ 50% on				-3594.98
	TOTAL				4313.97
	Assuming that material will become unserviceable after using 40 times, cost of 2.5 metre using once = S/40				107.85
	Cost of 2.5 meter				107.85
	Cost of 1 meter				43.14
	Say				43.15

16.81Y Sub analysis item for fabrication charges of Item No. 16.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Sub analysis item no.16.81Y to be used in				
	Item No. 16.81				
	Details of cost for 2.5 metre				
	MATERIAL				
1215	Welding by electric plant	cm	165.00	2.00	330.00
	Cutting, assembling and erection charges				
	LABOUR				
0012	Blacksmith 1st class	day	0.115	476.00	54.74
0013	Blacksmith 2nd class	day	0.115	374.50	43.07
0010	Bandhani	day	0.11	320.83	35.29
0017	Beldar	day	0.83	320.83	266.29
9999	Sundries	L.S.	12.1	2.00	24.20
	Labour for riveting / bolting / cutting etc.				
0019	Fitter (grade 1)	day	0.41	476.00	195.16
0013	Blacksmith 2nd class	day	0.54	374.50	202.23
0010	Bandhani	day	0.70	320.83	224.58
0017	Beldar	day	0.54	320.83	173.25
0037	Skilled Beldar (for floor rubbing etc.)	day	0.81	320.83	259.87
9999	Sundries	L.S.	12.1	2.00	24.20
	TOTAL				1832.88
	Shifting including transportation, re-erection etc. @ 10%				
					183.29
	TOTAL Cost of 2.5 meter				2016.17
	Cost of 1 meter				806.47
	Say				806.45
16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.				
	Details of cost for 100 meter				
	LABOUR				
0017	Beldar	day	0.75	320.83	240.62
0018	Coolie	day	3.00	320.83	962.49
9999	Sundries	L.S.	2.00	2.00	4.00
	TOTAL				1207.11 w
	Add 1 % Water charges on "W"				
					12.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1219.18 X
	Add GST (multiplying factor 0.1405) on "X"				171.30
	TOTAL				1390.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				208.57
	Total				1599.05 Z
	Add Cess @ 1% on "Z"				15.99
	Cost of 100 meter				1615.04
	Cost of 1 meter				16.15
	Say				16.15
16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.				
	Details of cost for 10 sqm.				
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	1.00	320.83	320.83
9999	Sundries	L.S.	2.70	2.00	5.40
	TOTAL				406.44 w
	Add 1 % Water charges on "W"				4.06
	TOTAL				410.50 X
	Add GST (multiplying factor 0.1405) on "X"				57.68
	TOTAL				468.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.23
	Total				538.40 Z
	Add Cess @ 1% on "Z"				5.38
	Cost of 10 sqm.				543.79
	Cost of 1 sqm				54.38
	Say				54.40
16.84	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).				
	Details of cost for 10 sqm.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Bedding layer 50mm thick				
982	Coarse sand	cum	0.50	1350.00	675.00
	Qty = 10 x 0.05 = 0.50 cum				
2203	Carriage of Coarse sand	cum	0.50	106.13	53.07
983	Fine sand	cum	0.15	900.00	135.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.15	106.13	15.92
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	0.50	320.83	160.42
	TOTAL				1785.48 w
	Add 1 % Water charges on "W"				17.85
	TOTAL				1803.33 X
	Add GST (multiplying factor 0.1405) on "X"				253.37
	TOTAL				2056.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				308.51
	Total				2365.21 Z
	Add Cess @ 1% on "Z"				23.65
	Cost of 10 sqm.				2388.86
	Cost of 1 sqm				238.89
	Say				238.90

16.85 Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)

Details of cost for 100 meter.

MATERIAL

Number of kerb stones = $100 / 0.405 = 247$

Nos.

Qty. = $247 \times 0.40 \times 0.375 \times 0.20 = 7.41 \text{ cum}$

No. of joints = $247 - 1 = 246$ Nos.

Cement Mortar 1:3 for fixing joints = $246 \times$

$[(0.115 + 0.20)/2 \times 0.375 \times 0.005]$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.073 cum				
3.8	Rate as per Item No.3.8 of SH:MORTARS	cum	0.073	4469.50	326.27
	LABOUR				
0023	Mason (brick layer) 1st class	day	2.50	476.00	1190.00
0024	Mason (brick layer) 2nd class	day	2.50	374.50	936.25
0017	Beldar	day	2.50	320.83	802.08
0018	Coolie	day	1.65	320.83	529.37
	TOTAL				3783.97 W
	Add 1 % Water charges on "W"				37.84
	TOTAL				3821.81 X
	Add GST (multiplying factor 0.1405) on "X"				536.96
	TOTAL				4358.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				653.82
	Total				5012.59 Z
	Add Cess @ 1% on "Z"				50.13
	Cost of 100 meter.				5062.71
	Cost of 1 meter.				50.63
	Say				50.65
16.86	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.				
16.86.1	With granite stone of area less than 0.50 sqm.				
	Detail of cost for 0.5sqm.				
	Mirror polished granite 0.5 sqm.				
	Waste @5% = 0.025 +0.5 = 0.525 sqm.				
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	1600.00	840.00
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.012	3815.05	45.78
	LABOUR :				
0023	Mason (brick layer) 1st class	day	0.56	476.00	266.56
0017	Beldar	day	0.05	320.83	16.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.05	320.83	16.04
9999	Sundries	L.S.	17.6	2.00	35.20
	TOTAL				1219.62 w
	Add 1 % Water charges on "W"				12.20
	TOTAL				1231.82 X
	Add GST (multiplying factor 0.1405) on "X"				173.07
	TOTAL				1404.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				210.73
	Total				1615.62 Z
	Add Cess @ 1% on "Z"				16.16
	Rate per 0.50 sqm.				1631.78
	Rate per sqm.				3263.56
	Say				3263.55

16.87 Providing and laying gang saw cut 30 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.

16.87.1 With granite stone of area less than 0.50 sqm.

Detail of cost for 0.50 sqm.

MATERIAL

Mirror polished granite 0.50 sqm. Waste @5%

total = 0.025 + 0.50 = 0.525 sqm.

7296	Granite stone slab 30mm thick	sqm	0.525	1800.00	945.00
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.012	3815.05	45.78
	LABOUR :				
0023	Mason (brick layer) 1st class	day	0.56	476.00	266.56
0017	Beldar	day	0.05	320.83	16.04
0018	Coolie	day	0.05	320.83	16.04
9999	Sundries	L.S.	17.6	2.00	35.20
	TOTAL				1324.62 w
	Add 1 % Water charges on "W"				13.25
	TOTAL				1337.87 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				187.97
	TOTAL				1525.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				228.88
	Total				1754.72 Z
	Add Cess @ 1% on "Z"				17.55
	Rate per 0.50 sqm.				1772.26
	Rate per sqm.				3544.53
	Say				3544.55
16.88	Providing and laying matt finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.				
	Detail of cost for 1 sqm.				
	MATERIAL				
	Matt finished vitrified tile 100x100 x16mm =10sqm.				
7895	Matt finished vitrified tile 100x100 x16mm	sqm	1.00	1000.00	1000.00
9977	Sundries	L.S.	6.24	2.00	12.48
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.024	3815.05	91.56
9999	Sundries	L.S.	3.64	2.00	7.28
367	Portland Cement (OPC-43 grade) LABOUR :	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				1340.81 w
	Add 1 % Water charges on "W"				13.41
	TOTAL				1354.22 X
	Add GST (multiplying factor 0.1405) on "X"				190.27
	TOTAL				1544.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				231.67
	Total				1776.16 Z
	Add Cess @ 1% on "Z"				17.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per sqm.				1793.92
	Say				1793.90
16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.				
	Detail of cost for 1 sqm.				
	MATERIAL				
	Tile 300x300 x9.8mm = 1.00 sqm.				
7896	Vitrified tile	sqm	1.00	500.00	500.00
9977	Sundries	L.S.	6.24	2.00	12.48
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.024	3815.05	91.56
9999	Sundries	L.S.	3.64	2.00	7.28
367	Portland Cement (OPC-43 grade) LABOUR :	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.200	476.00	95.20
0018	Coolie	day	0.200	320.83	64.17
9999	Sundries	L.S.	26.91	2.00	53.82
	TOTAL				840.81 W
	Add 1 % Water charges on "W"				8.41
	TOTAL				849.22 X
	Add GST (multiplying factor 0.1405) on "X"				119.32
	TOTAL				968.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.28
	Total				1113.81 Z
	Add Cess @ 1% on "Z"				11.14
	Cost per sqm.				1124.95
	Say				1124.95

- 16.90 Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.**

Detail of cost for 1 sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL:					
Tile 300x300 x9.8mm = 1.00 sqm.					
7893	Tactile tile	sqm	1.00	1000.00	1000.00
9977	Carriage	L.S.	6.24	2.00	12.48
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.024	3815.05	91.56
9999	Sundries	L.S.	3.64	2.00	7.28
367	Portland Cement (OPC-43 grade) LABOUR :	tonne	0.0033	4940.00	16.30
0023	Mason (brick layer) 1st class	day	0.20	476.00	95.20
0018	Coolie	day	0.20	320.83	64.17
9999	Sundries	L.S.	26.91	2.00	53.82
TOTAL					1340.81 W
Add 1 % Water charges on "W"					13.41
TOTAL					1354.22 X
Add GST (multiplying factor 0.1405) on "X"					190.27
TOTAL					1544.48 Y
Add 15 % Contractor's profit and overheads on "Y"					231.67
Total					1776.16 Z
Add Cess @ 1% on "Z"					17.76
Cost per sqm.					1793.92
Say					1793.90

16.91 Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.

16.91.1 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.

Details of cost for 10 sqm.

MATERIAL :

7773	Coloured inter locking C.C. paver Block	sqm	10.00	450.00	4500.00
983	Fine sand	cum	0.50	900.00	450.00
2261	Carriage of Fine sand (1 part badarpur	cum	0.65	106.13	68.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	sand : 2 parts Sand)				
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries	L.S.	25.00	2.00	50.00
	TOTAL				5975.48 W
	Add 1 % Water charges on "W"				59.75
	TOTAL				6035.23 X
	Add GST (multiplying factor 0.1405) on "X"				847.95
	TOTAL				6883.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				1032.48
	Total				7915.66 Z
	Add Cess @ 1% on "Z"				79.16
	Cost of 10 Cum.				7994.82
	Cost of 1 Cum.				799.48
	Say				799.50

16.91.2 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.

Details of cost for 10.00 sqm.

MATERIALS :

8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	10.00	470.00	4700.00
982	Coarse sand (zone 111) (10 x 0.050 = 0.50 cum)	cum	0.50	1350.00	675.00
2203	Carriage of Coarse sand	cum	0.50	106.13	53.07
983	Fine sand	cum	0.15	900.00	135.00
2261	Carriage of Fine sand Labour for Laying	cum	0.15	106.13	15.92
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	0.50	320.83	160.42
	TOTAL				6485.48 W
	Add 1 % Water charges on "W"				64.85
	TOTAL				6550.33 X
	Add GST (multiplying factor 0.1405) on "X"				920.32
	TOTAL				7470.66 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				1120.60
	Total				8591.25 Z
	Add Cess @ 1% on "Z"				85.91
	Cost of 10 Cum.				8677.17
	Cost of 1 Cum.				867.72
	Say				867.70
16.92	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge.				
	Details of cost for 10.00 sqm.				
	MATERIALS :				
	Stone size 10x10x7.50cm =1sqm+5% wastage=sqm				
7774	Stone size 10x10x7.50cm	each	827	10.00	8270.00
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.434	3815.05	1655.73
367	Portland Cement (OPC-43 grade) LABOUR :	tonne	0.02	4940.00	98.80
0024	Mason (brick layer) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	0.25	320.83	80.21
0018	Coolie	day	1.62	320.83	519.74
0011	Bhisti	day	0.27	320.83	86.62
13.33.1	Rate as per Item No.13.33.1 of	sqm	10	163.30	1633.04 A
	SH: FINISHING				
	TOTAL				12748.61 W
	Add 1 % Water charges on "W-A"		11115.57		111.16
	TOTAL				12859.76 X
	Add GST (multiplying factor 0.1405) on "X-A"		11226.72		1577.35
	TOTAL				14437.12 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		12804.08		1920.61
	Total				16357.73 Z
	Add Cess @ 1% on "Z-A"		14724.69		147.25
	Cost of 10 sqm.				16504.97
	Cost of 1 sqm.				1650.50
	Say				1650.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.93	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.				
	Details of cost of 1 No of size 1.50 x 0.40 = 0.60 sqm MATERIALS : Precast RCC M-25				
5.33.1	Rate as per Item No.5.33.1 of SH: REINFORCED CEMENT CONCRETE	cum	0.06	6934.90	416.09 A
5.22.6	Reinforcement TMT Rate as per Item No.5.22.6 of SH: REINFORCED CEMENT CONCRETE	Kg	4.59	76.85	352.74 A
	Welding by gas plant/ Electric plant				
10.22	Rate as per Item No.10.22 of SH: STEEL WORK	cm	82.00	3.35	274.70 A
	M.S. sheet 1.60 mm thick 2x(1.50+0.40)x0.10x0.016x7850=4.77kg				
1013	Mild steel sheets for tanks	quintal	0.0477	4600.00	219.42
	Paint 2x(1.50+0.40)x0.10=0.38sqm				
13.61.1	Rate as per Item No.13.61.1 of SH: FINISHING Neat Cement Punning	sqm	0.38	82.40	31.31 A
	1x1.50x0.40=0.60 sqm				
13.18	Rate as per Item No.13.18 of SH: FINISHING	sqm	0.60	42.10	25.26 A
	TOTAL				1319.53 W
	Add 1 % Water charges on "W-A"	219.42			2.19
	TOTAL				1321.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	221.61			31.14
	TOTAL				1352.86 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	252.75			37.91
	Total				1390.77 Z
	Add Cess @ 1% on "Z-A"	290.66			2.91
	Cost of 0.60 sqm.				1393.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 sqm.				2322.80
	Say				2322.80
16.94	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh Type 10x12 (D=100 mm with tolerance of $\pm 2\%$) Zinc coated, Mesh wire diameter 3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2mm, supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge.				
	Details cost of one Gabion box/Crates of				
	size 2mx1mx1m = 2 cum				
	MATERIAL				
8576	Crates made of Mesh type 10x12 (D=100 mm) Zn coated. (Mesh wire diameter 3.00 mm).	sqm	11.00	190.00	2090.00
	Surface area required = 11.00 sqm.				
7753	Stone boulder with least dimension 200mm	cum	2.00	850.00	1700.00
	LABOUR				
0028	Mate	day	0.10	320.83	32.08
0025	Mason (for plain stone work) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				4490.58 W
	Add 1 % Water charges on "W"				44.91
	TOTAL				4535.48 X
	Add GST (multiplying factor 0.1405) on "X"				637.24
	TOTAL				5172.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				775.91
	Total				5948.63 Z
	Add Cess @ 1% on "Z"				59.49
	Cost of 2 cum				6008.11
	Cost of 1 cum				3004.06
	Say				3004.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
16.95	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of $\pm 2\%$) Zinic+PVC coated, Mesh wire diameter 2.7/3.7mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-charge.				
	Details cost of one Gabion box/Crates of size 2mx1mx1m = 2 cum MATERIAL				
8577	Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD). Surface area required = 11.00 sqm.	sqm	11.00	220.00	2420.00
7753	Stone boulder with least dimension 200mm	cum	2.00	850.00	1700.00
	LABOUR				
0028	Mate	day	0.10	320.83	32.08
0025	Mason (for plain stone work) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				4820.58 W
	Add 1 % Water charges on "W"				48.21
	TOTAL				4868.78 X
	Add GST (multiplying factor 0.1405) on "X"				684.06
	TOTAL				5552.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				832.93
	Total				6385.78 Z
	Add Cess @ 1% on "Z"				63.86
	Cost of 2 cum				6449.63
	Cost of 1 cum				3224.82
	Say				3224.80
16.96	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of $\pm 2\%$), Zinic+10% Al alloy+PVC coated, Mesh wire diameter 2.7/3.7mm (ID/OD), mechanically edged/ selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details cost of one Gabion box/Crates of size 2mx1mx1m = 2 cum MATERIAL				
8578	Crates made of Mesh type 10x12 (D=100 mm) Zn+10% Al alloy + PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD). Surface area required = 11.00 sqm.	sqm	11.00	290.00	3190.00
7753	Stone boulder with least dimension 200mm LABOUR	cum	2.00	850.00	1700.00
0028	Mate	day	0.10	320.83	32.08
0025	Mason (for plain stone work) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				5590.58 W
	Add 1 % Water charges on "W"				55.91
	TOTAL				5646.48 X
	Add GST (multiplying factor 0.1405) on "X"				793.33
	TOTAL				6439.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				965.97
	Total				7405.79 Z
	Add Cess @ 1% on "Z"				74.06
	Cost of 2 cum				7479.84
	Cost of 1 cum				3739.92
	Say				3739.90

SUB HEAD : 17.0

SANITARY INSTALLATIONS

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests				
	Details of cost for one pan				
	MATERIAL				
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	1.00	1200.00	1200.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	1.00	575.00	575.00
1896	100 mm S.C.I. trap with vent heel	each	1.00	320.00	320.00
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.25	476.00	595.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				3356.47 W
	Add 1 % Water charges on "W"				33.56
	TOTAL				3390.03 X
	Add GST (multiplying factor 0.1405) on "X"				476.30
	TOTAL				3866.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				579.95
	Total				4446.28 Z
	Add Cess @ 1% on "Z"				44.46
	Cost of each				4490.75
	Say				4490.75
17.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests				
	Details of cost for one pan				
	MATERIAL				
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578mm	each	1.00	4500.00	4500.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and	each	1.00	575.00	575.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	flush pipe)				
1896	100 mm S.C.I. trap with vent heel	each	1.00	320.00	320.00
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.25	476.00	595.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				6656.47 W
	Add 1 % Water charges on "W"				66.56
	TOTAL				6723.03 X
	Add GST (multiplying factor 0.1405) on "X"				944.59
	TOTAL				7667.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				1150.14
	Total				8817.76 Z
	Add Cess @ 1% on "Z"				88.18
	Cost of each				8905.94
	Say				8905.95
17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
17.2.1	W.C. pan with ISI marked white solid plastic seat and lid				
	Details of cost for one pan				
	MATERIAL				
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1.00	400.00	400.00
1955	Vitreous china pedestal type water closet	each	1.00	1000.00	1000.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	1.00	575.00	575.00
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.25	476.00	595.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				3236.47 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				32.36
	TOTAL				3268.83 X
	Add GST (multiplying factor 0.1405) on "X"				459.27
	TOTAL				3728.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				559.22
	Total				4287.32 Z
	Add Cess @ 1% on "Z"				42.87
	Cost of each				4330.20
	Say				4330.20

17.2.2 W.C. pan with ISI marked black solid plastic seat and lid

Details of cost for one pan

MATERIAL

1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	1.00	310.00	310.00
1955	Vitreous china pedestal type water closet	each	1.00	1000.00	1000.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	1.00	575.00	575.00
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82

LABOUR

0019	Fitter (grade 1)	day	1.25	476.00	595.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83

TOTAL 3146.47 W

Add 1 % Water charges on "W" 31.46

TOTAL 3177.93 X

Add GST (multiplying factor 0.1405) on "X" 446.50

TOTAL 3624.43 Y

Add 15 % Contractor's profit and overheads on "Y" 543.67

Total 4168.10 Z

Add Cess @ 1% on "Z" 41.68

Cost of each 4209.78

Say 4209.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
17.3.1	W.C. pan with ISI marked white solid plastic seat and lid				
	Details of cost for one pan				
	MATERIAL				
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1.00	400.00	400.00
1955	Vitreous china pedestal type water closet	each	1.00	1000.00	1000.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1.00	1240.00	1240.00
9999	Overflow arrangement and specials for overflow pipe	L.S.	62.79	2.00	125.58
1350	Mosquito proof coupling of approved design	each	1.00	30.00	30.00
9999	Plugs ,screws etc.	L.S.	13.52	2.00	27.04
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				4235.33 W
	Add 1 % Water charges on "W"				42.35
	TOTAL				4277.68 X
	Add GST (multiplying factor 0.1405) on "X"				601.01
	TOTAL				4878.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				731.80
	Total				5610.50 Z
	Add Cess @ 1% on "Z"				56.11
	Cost of each				5666.61
	Say				5666.60
17.3.2	W.C. pan with ISI marked black solid plastic seat and lid				
	Details of cost for one pan				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	1.00	310.00	310.00
1955	Vitreous china pedestal type water closet	each	1.00	1000.00	1000.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1.00	1240.00	1240.00
9999	Overflow arrangement and specials for overflow pipe	L.S.	62.79	2.00	125.58
1350	Mosquito proof coupling of approved design	each	1.00	30.00	30.00
9999	Plugs, screws etc.	L.S.	13.52	2.00	27.04
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
LABOUR					
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
TOTAL					4145.33 w
Add 1 % Water charges on "W"					41.45
TOTAL					4186.78 X
Add GST (multiplying factor 0.1405) on "X"					588.24
TOTAL					4775.03 Y
Add 15 % Contractor's profit and overheads on "Y"					716.25
Total					5491.28 Z
Add Cess @ 1% on "Z"					54.91
Cost of each					5546.19
Say					5546.20
17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern				
Details of cost for one no.					
MATERIAL					
1913	Vitreous china lipped front urinal	each	1.00	460.00	460.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	1.00	445.00	445.00
9999	Red lead, white lead and gasket	L.S.	13.52	2.00	27.04
9999	Plugs ,screws etc.	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9999	Painting of fittings etc.	L.S.	39.00	2.00	78.00
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	0.88	476.00	418.88
0023	Mason (brick layer) 1st class	day	0.88	476.00	418.88
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				2906.95 W
	Add 1 % Water charges on "W"				29.07
	TOTAL				2936.01 X
	Add GST (multiplying factor 0.1405) on "X"				412.51
	TOTAL				3348.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				502.28
	Total				3850.80 Z
	Add Cess @ 1% on "Z"				38.51
	Cost of each				3889.31
	Say				3889.30

17.4.2 Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern

Details of cost for one no.

MATERIAL

1913	Vitreous china lipped front urinal	each	2.00	460.00	920.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1.00	765.00	765.00
9999	Red lead, white lead and gasket	L.S.	20.28	2.00	40.56
9999	Plugs ,screws etc.	L.S.	20.28	2.00	40.56
9999	Cement, sand and grit etc.	L.S.	20.28	2.00	40.56
9999	Painting of fittings etc.	L.S.	39.00	2.00	78.00
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.50	476.00	714.00
0023	Mason (brick layer) 1st class	day	1.50	476.00	714.00
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				4478.16 W
	Add 1 % Water charges on "W"				44.78
	TOTAL				4522.94 X
	Add GST (multiplying factor 0.1405) on "X"				635.47
	TOTAL				5158.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				773.76
	Total				5932.18 Z
	Add Cess @ 1% on "Z"				59.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				5991.50
	Say				5991.50
17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern				
	Details of cost for one no.				
	MATERIAL				
1913	Vitreous china lipped front urinal	each	3.00	460.00	1380.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1.00	1050.00	1050.00
9999	Red lead, white lead and gasket	L.S.	33.67	2.00	67.34
9999	Plugs ,screws etc.	L.S.	33.67	2.00	67.34
9999	Cement, sand and grit etc.	L.S.	33.67	2.00	67.34
9999	Painting of fittings etc.	L.S.	39.00	2.00	78.00
9977	Carriage of materials	L.S.	40.30	2.00	80.60
	LABOUR				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0023	Mason (brick layer) 1st class	day	2.00	476.00	952.00
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				6167.11 W
	Add 1 % Water charges on "W"				61.67
	TOTAL				6228.78 X
	Add GST (multiplying factor 0.1405) on "X"				875.14
	TOTAL				7103.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				1065.59
	Total				8169.51 Z
	Add Cess @ 1% on "Z"				81.70
	Cost of each				8251.21
	Say				8251.20
17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern				
	Details of cost for one no.				
	MATERIAL				
1913	Vitreous china lipped front urinal	each	4.00	460.00	1840.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	1.00	1430.00	1430.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Red lead, white lead and gasket	L.S.	53.82	2.00	107.64
9999	Plugs ,screws etc.	L.S.	53.82	2.00	107.64
9999	Cement, sand and grit etc.	L.S.	53.82	2.00	107.64
9999	Painting of fittings etc.	L.S.	39.00	2.00	78.00
9977	Carriage of materials	L.S.	53.82	2.00	107.64
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0023	Mason (brick layer) 1st class	day	3.00	476.00	1428.00
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				8427.88 W
	Add 1 % Water charges on "W"				84.28
	TOTAL				8512.16 X
	Add GST (multiplying factor 0.1405) on "X"				1195.96
	TOTAL				9708.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				1456.22
	Total				11164.33 Z
	Add Cess @ 1% on "Z"				111.64
	Cost of each				11275.98
	Say				11276.00
17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern				
	Details of cost for one no.				
	MATERIAL				
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	1.00	865.00	865.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	1.00	270.00	270.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	1.00	170.00	170.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	40.43	2.00	80.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	1.75	476.00	833.00
0023	Mason (brick layer) 1st class	day	2.00	476.00	952.00
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				5065.10 W
	Add 1 % Water charges on "W"				50.65
	TOTAL				5115.75 X
	Add GST (multiplying factor 0.1405) on "X"				718.76
	TOTAL				5834.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				875.18
	Total				6709.69 Z
	Add Cess @ 1% on "Z"				67.10
	Cost of each				6776.79
	Say				6776.80

17.5.2 Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern

Details of cost for one no.

MATERIAL

7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	2.00	865.00	1730.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	1.00	400.00	400.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	1.00	170.00	170.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	53.82	2.00	107.64
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	53.82	2.00	107.64

LABOUR

0019	Fitter (grade 1)	day	2.50	476.00	1190.00
0023	Mason (brick layer) 1st class	day	3.00	476.00	1428.00
0017	Beldar	day	6.00	320.83	1924.98
	TOTAL				7615.36 W
	Add 1 % Water charges on "W"				76.15
	TOTAL				7691.51 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				1080.66
	TOTAL				8772.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				1315.83
	Total				10088.00 Z
	Add Cess @ 1% on "Z"				100.88
	Cost of each				10188.88
	Say				10188.90

17.5.3 Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern

Details of cost for one no.

MATERIAL

7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	3.00	865.00	2595.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	1.00	520.00	520.00
1893	C.I. trap for standard urinal with vent arm with operatin C.P.brass: 80 mm dia	each	1.00	225.00	225.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	80.73	2.00	161.46
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	67.21	2.00	134.42
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0023	Mason (brick layer) 1st class	day	3.50	476.00	1666.00
0017	Beldar	day	7.00	320.83	2245.81
	TOTAL				9572.79 W
	Add 1 % Water charges on "W"				95.73
	TOTAL				9668.52 X
	Add GST (multiplying factor 0.1405) on "X"				1358.43
	TOTAL				11026.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				1654.04
	Total				12680.99 Z
	Add Cess @ 1% on "Z"				126.81
	Cost of each				12807.80
	Say				12807.80

17.5.4 Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	4.00	865.00	3460.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	1.00	600.00	600.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	1.00	225.00	225.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	107.64	2.00	215.28
9999	Painting of fittings etc.	L.S.	39.00	2.00	78.00
9977	Carriage of materials	L.S.	80.73	2.00	161.46
	LABOUR				
0019	Fitter (grade 1)	day	3.50	476.00	1666.00
0023	Mason (brick layer) 1st class	day	4.00	476.00	1904.00
0017	Beldar	day	8.00	320.83	2566.64
	TOTAL				11421.48 W
	Add 1 % Water charges on "W"				114.21
	TOTAL				11535.69 X
	Add GST (multiplying factor 0.1405) on "X"				1620.77
	TOTAL				13156.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				1973.47
	Total				15129.93 Z
	Add Cess @ 1% on "Z"				151.30
	Cost of each				15281.23
	Say				15281.25
17.6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :				
17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern				
	Details of cost for one no.				
	MATERIAL				
1915	Vitreous china squatting plate urinal	each	1.00	1053.00	1053.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
1540	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	1.00	175.00	175.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cement, sand and grit etc.	L.S.	26.91	2.00	53.82
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	1.75	476.00	833.00
0023	Mason (brick layer) 1st class	day	0.75	476.00	357.00
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				4045.23 W
	Add 1 % Water charges on "W"				40.45
	TOTAL				4085.68 X
	Add GST (multiplying factor 0.1405) on "X"				574.04
	TOTAL				4659.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				698.96
	Total				5358.68 Z
	Add Cess @ 1% on "Z"				53.59
	Cost of each				5412.27
	Say				5412.25

17.6.2 Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern

Details of cost for one no.

MATERIAL

1915	Vitreous china squatting plate urinal	each	2.00	1053.00	2106.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	1.00	470.00	470.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	1.00	250.00	250.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	53.82	2.00	107.64
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	33.15	2.00	66.30
	LABOUR				
0019	Fitter (grade 1)	day	2.50	476.00	1190.00
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				6036.36 W
	Add 1 % Water charges on "W"				60.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6096.72 X
	Add GST (multiplying factor 0.1405) on "X"				856.59
	TOTAL				6953.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				1043.00
	Total				7996.31 Z
	Add Cess @ 1% on "Z"				79.96
	Cost of each				8076.27
	Say				8076.25

17.6.3 Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern

Details of cost for one no.

MATERIAL

1915	Vitreous china squatting plate urinal	each	3.00	1053.00	3159.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	1.00	300.00	300.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	80.73	2.00	161.46
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	42.12	2.00	84.24

LABOUR

0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0023	Mason (brick layer) 1st class	day	1.50	476.00	714.00
0017	Beldar	day	5.00	320.83	1604.15

TOTAL 8047.95 W

Add 1 % Water charges on "W" 80.48

TOTAL 8128.43 X

Add GST (multiplying factor 0.1405) on "X" 1142.04

TOTAL 9270.47 Y

Add 15 % Contractor's profit and overheads on "Y" 1390.57

Total 10661.04 Z

Add Cess @ 1% on "Z" 106.61

Cost of each 10767.66

Say 10767.65

17.6.4 Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
1915	Vitreous china squatting plate urinal	each	4.00	1053.00	4212.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	1.00	510.00	510.00
1543	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	1.00	390.00	390.00
9999	Red lead, white lead and gasket	L.S.	17.55	2.00	35.10
9999	Cement, sand and grit etc.	L.S.	107.64	2.00	215.28
9999	Painting of fittings etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	69.03	2.00	138.06
	LABOUR				
0019	Fitter (grade 1)	day	3.50	476.00	1666.00
0023	Mason (brick layer) 1st class	day	1.75	476.00	833.00
0017	Beldar	day	5.50	320.83	1764.57
	TOTAL				9816.01 W
	Add 1 % Water charges on "W"				98.16
	TOTAL				9914.17 X
	Add GST (multiplying factor 0.1405) on "X"				1392.94
	TOTAL				11307.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				1696.07
	Total				13003.17 Z
	Add Cess @ 1% on "Z"				130.03
	Cost of each				13133.20
	Say				13133.20
17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps				
	Details of cost for one no.				
	MATERIAL				
1947	Vitreous china flat back wash basin 630x450 mm	each	1.00	725.00	725.00
1885	15 mm C.P.brass tap	each	2.00	207.00	414.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.67	320.83	214.96
	TOTAL				1976.00 W
	Add 1 % Water charges on "W"				19.76
	TOTAL				1995.76 X
	Add GST (multiplying factor 0.1405) on "X"				280.40
	TOTAL				2276.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				341.42
	Total				2617.58 Z
	Add Cess @ 1% on "Z"				26.18
	Cost of each				2643.76
	Say				2643.75

17.7.2 White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap

Details of cost for one no.

MATERIAL

1947	Vitreous china flat back wash basin 630x450 mm	each	1.00	725.00	725.00
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				1741.88 W
	Add 1 % Water charges on "W"				17.42
	TOTAL				1759.30 X
	Add GST (multiplying factor 0.1405) on "X"				247.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2006.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				300.97
	Total				2307.46 Z
	Add Cess @ 1% on "Z"				23.07
	Cost of each				2330.53
	Say				2330.55
17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps				
	Details of cost for one no.				
	MATERIAL				
3229	Vitreous china flat back wash basin 550x400 mm	each	1.00	545.00	545.00
1885	15 mm C.P.brass tap	each	2.00	207.00	414.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.67	320.83	214.96
	TOTAL				1796.00 W
	Add 1 % Water charges on "W"				17.96
	TOTAL				1813.96 X
	Add GST (multiplying factor 0.1405) on "X"				254.86
	TOTAL				2068.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				310.32
	Total				2379.14 Z
	Add Cess @ 1% on "Z"				23.79
	Cost of each				2402.93
	Say				2402.95
17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
3229	Vitreous china flat back wash basin 550x400 mm	each	1.00	545.00	545.00
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				1561.88 W
	Add 1 % Water charges on "W"				15.62
	TOTAL				1577.50 X
	Add GST (multiplying factor 0.1405) on "X"				221.64
	TOTAL				1799.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				269.87
	Total				2069.01 Z
	Add Cess @ 1% on "Z"				20.69
	Cost of each				2089.70
	Say				2089.70

17.7.5 White Vitreous China Angle back wash basin size 600 x 480 mm with single 15 mm C.P. brass pillar tap

Details of cost for one no.

MATERIAL

1949	Vitreous china angle back wash basin 600x480 mm	each	1.00	725.00	725.00
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04

LABOUR

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				1741.88 W
	Add 1 % Water charges on "W"				17.42
	TOTAL				1759.30 X
	Add GST (multiplying factor 0.1405) on "X"				247.18
	TOTAL				2006.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				300.97
	Total				2307.46 Z
	Add Cess @ 1% on "Z"				23.07
	Cost of each				2330.53
	Say				2330.55

17.7.6 White Vitreous China Angle back wash basin size 400 x 400 mm with single 15 mm C.P. brass pillar tap

Details of cost for one no.

MATERIAL

1950	Vitreous china angle back wash basin 400x400 mm	each	1.00	425.00	425.00
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04

LABOUR

0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				1441.88 W
	Add 1 % Water charges on "W"				14.42
	TOTAL				1456.30 X
	Add GST (multiplying factor 0.1405) on "X"				204.61
	TOTAL				1660.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				249.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1910.05 Z
	Add Cess @ 1% on "Z"				19.10
	Cost of each				1929.15
	Say				1929.15
17.7.7	White Vitreous China Flat back wash basin size 450x 300 mm with single 15 mm C.P. brass pillar tap				
	Details of cost for one no.				
	MATERIAL				
7004	Vitreous china flat back wash basin 450x300 mm	each	1.00	310.00	310.00
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				1326.88 W
	Add 1 % Water charges on "W"				13.27
	TOTAL				1340.15 X
	Add GST (multiplying factor 0.1405) on "X"				188.29
	TOTAL				1528.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				229.27
	Total				1757.71 Z
	Add Cess @ 1% on "Z"				17.58
	Cost of each				1775.29
	Say				1775.30

17.7.8 White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow including operated levers

Details of cost for one no.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1.00	1000.00	1000.00
7363	15 mm C.P. brass tap with elbow operation lever	each	2.00	430.00	860.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.67	320.83	214.96
	TOTAL				2697.00 W
	Add 1 % Water charges on "W"				26.97
	TOTAL				2723.97 X
	Add GST (multiplying factor 0.1405) on "X"				382.72
	TOTAL				3106.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				466.00
	Total				3572.69 Z
	Add Cess @ 1% on "Z"				35.73
	Cost of each				3608.41
	Say				3608.40

17.7.9 White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI Marked

Details of cost for one no.

MATERIAL

3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1.00	1000.00	1000.00
7363	15 mm C.P. brass tap with elbow operation lever	each	1.00	430.00	430.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04

LABOUR

0019	Fitter (grade 1)	day	0.30	476.00	142.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				2239.88 W
	Add 1 % Water charges on "W"				22.40
	TOTAL				2262.28 X
	Add GST (multiplying factor 0.1405) on "X"				317.85
	TOTAL				2580.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				387.02
	Total				2967.15 Z
	Add Cess @ 1% on "Z"				29.67
	Cost of each				2996.82
	Say				2996.80
17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap				
	Details of cost for one no.				
	MATERIAL				
7806	Salem Stainless steel AISI - 304 (18/8)	each	1.00	1500.00	1500.00
	Round basin 405mm X 355mm				
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				2516.88 W
	Add 1 % Water charges on "W"				25.17
	TOTAL				2542.05 X
	Add GST (multiplying factor 0.1405) on "X"				357.16
	TOTAL				2899.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				434.88
	Total				3334.09 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				33.34
	Cost of each				3367.43
	Say				3367.45
17.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap				
	Details of cost for one no.				
	MATERIAL				
7807	Salem Stainless steel AISI - 304 (18/8)	each	1.00	2000.00	2000.00
	Wash basin 530mm X 345mm				
1885	15 mm C.P.brass tap	each	1.00	207.00	207.00
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gaskit	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				3016.88 W
	Add 1 % Water charges on "W"				30.17
	TOTAL				3047.05 X
	Add GST (multiplying factor 0.1405) on "X"				428.11
	TOTAL				3475.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				521.27
	Total				3996.44 Z
	Add Cess @ 1% on "Z"				39.96
	Cost of each				4036.40
	Say				4036.40
17.7A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-				
	(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer				
	Details of cost for 1 no.				
	MATERIAL				
3229	Vitreous china flat back wash basin 550x400 mm	each	1.00	545.00	545.00
9001	C.P. Brass Centre Hole Basin Mixer With	each	1.00	1600.00	1600.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cast Spout (Kigston/Marc/Prima/ Parko/ Hindware)				
1951	C.P. brass waste 32 mm	each	1.00	80.00	80.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red lead, white lead and gaskit	L.S.	16.12	2.00	32.24
9999	Cement, Sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.63	320.83	202.12
	TOTAL				2969.16 W
	Add 1 % Water charges on "W"				29.69
	TOTAL				2998.85 X
	Add GST (multiplying factor 0.1405) on "X"				421.34
	TOTAL				3420.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				513.03
	Total				3933.22 Z
	Add Cess @ 1% on "Z"				39.33
	Cost of each				3972.55
	Say				3972.55
17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.				
	Details of cost for 1 No.				
	MATERIAL				
3229	Vitreous china flat back wash basin 550x400 mm	each	1.00	545.00	545.00
7406	PTMT pillar cock	each	1.00	125.00	125.00
7491	PTMT - Waste Coupling 31/32 mm	each	1.00	34.00	34.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Red Lead, White Lead and Gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc	L.S.	13.39	2.00	26.78
9999	Painting of brackets, fittings etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.67	320.83	214.96
	TOTAL				1461.00 W
	Add 1 % Water charges on "W"				14.61
	TOTAL				1475.61 X
	Add GST (multiplying factor 0.1405) on "X"				207.32
	TOTAL				1682.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				252.44
	Total				1935.37 Z
	Add Cess @ 1% on "Z"				19.35
	Cost of each				1954.72
	Say				1954.70
17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.				
	Details of cost for one pedestal				
	MATERIAL				
1396	Vitreous china pedestal for wash basin	each	1.00	900.00	900.00
9999	White cement mortar	L.S.	40.30	2.00	80.60
9988	Carriage of materials and fixing charges	L.S.	40.43	2.00	80.86
	TOTAL				1061.46 W
	Add 1 % Water charges on "W"				10.61
	TOTAL				1072.07 X
	Add GST (multiplying factor 0.1405) on "X"				150.63
	TOTAL				1222.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				183.41
	Total				1406.11 Z
	Add Cess @ 1% on "Z"				14.06
	Cost of each				1420.17
	Say				1420.15
17.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:				
17.9.1	White glazed fire clay kitchen sink of size 600x450x 250 mm				
	Details of cost for one no.				
	MATERIAL				
1863	Fire clay kitchen sink: 600x450x250 mm	each	1.00	1283.00	1283.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	1.00	40.00	40.00
1952	C.P. brass waste 40 mm	each	1.00	95.00	95.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Red lead, white lead and gasket	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting brackets etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				2087.34 W
	Add 1 % Water charges on "W"				20.87
	TOTAL				2108.22 X
	Add GST (multiplying factor 0.1405) on "X"				296.20
	TOTAL				2404.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				360.66
	Total				2765.09 Z
	Add Cess @ 1% on "Z"				27.65
	Cost of each				2792.74
	Say				2792.75
17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
17.10.1	Kitchen sink with drain board				
17.10.1.1	510x1040 mm bowl depth 250 mm				
	Details of cost for one no.				
	MATERIAL				
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	1.00	2480.00	2480.00
1309	C.I. bracket for wash basin and sinks	pair	2.00	88.00	176.00
9999	Cement, sand and grit etc.	L.S.	27.04	2.00	54.08
9999	Painting of brackets etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				3444.34 W
	Add 1 % Water charges on "W"				34.44
	TOTAL				3478.78 X
	Add GST (multiplying factor 0.1405) on "X"				488.77
	TOTAL				3967.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				595.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				4562.69 Z
	Add Cess @ 1% on "Z"				45.63
	Cost of each				4608.31
	Say				4608.30
17.10.1.2	510x1040 mm bowl depth 225 mm				
	Details of cost for one no.				
	MATERIAL				
7096	Stainlees steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	1.00	3000.00	3000.00
1309	C.I. bracket for wash basin and sinks	pair	2.00	88.00	176.00
9999	Cement, sand and grit etc.	L.S.	27.04	2.00	54.08
9999	Painting of brackets etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				3964.34 W
	Add 1 % Water charges on "W"				39.64
	TOTAL				4003.98 X
	Add GST (multiplying factor 0.1405) on "X"				562.56
	TOTAL				4566.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				684.98
	Total				5251.53 Z
	Add Cess @ 1% on "Z"				52.52
	Cost of each				5304.04
	Say				5304.05

17.10.1.3 510x1040 mm bowl depth 200 mm

Details of cost for one no.

MATERIAL

7097	Stainlees steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	1.00	2800.00	2800.00
1309	C.I. bracket for wash basin and sinks	pair	2.00	88.00	176.00
9999	Cement, sand and grit etc.	L.S.	27.04	2.00	54.08
9999	Painting of brackets etc.	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04

LABOUR

0019	Fitter (grade 1)	day	0.22	476.00	104.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				3764.34 W
	Add 1 % Water charges on "W"				37.64
	TOTAL				3801.98 X
	Add GST (multiplying factor 0.1405) on "X"				534.18
	TOTAL				4336.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				650.42
	Total				4986.59 Z
	Add Cess @ 1% on "Z"				49.87
	Cost of each				5036.45
	Say				5036.45

17.10.1.4 510x1040 mm bowl depth 178 mm

Details of cost for one no.

MATERIAL

7098	Stainless steel kitchen sink - with drain board 510x1040mm bowl depth 178 mm	each	1.00	2500.00	2500.00
1309	C.I. bracket for wash basin and sinks	pair	2.00	88.00	176.00
9999	Cement, sand and grit etc.	L.S.	27.04	2.00	54.08
9999	Painting brackets	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.60	476.00	285.60
0017	Beldar	day	0.82	320.83	263.08
	TOTAL				3464.34 W
	Add 1 % Water charges on "W"				34.64
	TOTAL				3498.98 X
	Add GST (multiplying factor 0.1405) on "X"				491.61
	TOTAL				3990.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				598.59
	Total				4589.18 Z
	Add Cess @ 1% on "Z"				45.89
	Cost of each				4635.07
	Say				4635.05

17.10.2 Kitchen sink without drain board 17.10.2.1 610x510 mm bowl depth 200 mm

Details of cost for one no.

MATERIAL

7101	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm	each	1.00	1800.00	1800.00
1309.00	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999.00	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9999.00	Painting brackets	L.S.	26.91	2.00	53.82
9977.00	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				2437.36 W
	Add 1 % Water charges on "W"				24.37
	TOTAL				2461.74 X
	Add GST (multiplying factor 0.1405) on "X"				345.87
	TOTAL				2807.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				421.14
	Total				3228.75 Z
	Add Cess @ 1% on "Z"				32.29
	Cost of each				3261.04
	Say				3261.05

17.10.2.2 610x460 mm bowl depth 200 mm

Details of cost for one no.

MATERIAL

7102	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	1.00	1200.00	1200.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9999	Painting brackets	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				1837.36 W
	Add 1 % Water charges on "W"				18.37
	TOTAL				1855.74 X
	Add GST (multiplying factor 0.1405) on "X"				260.73
	TOTAL				2116.47 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				317.47
	Total				2433.94 Z
	Add Cess @ 1% on "Z"				24.34
	Cost of each				2458.28
	Say				2458.30

17.10.2.3 470x420 mm bowl depth 178 mm

Details of cost for one no.

MATERIAL

7103	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	1.00	1050.00	1050.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9999	Painting brackets	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				1687.36 W
	Add 1 % Water charges on "W"				16.87
	TOTAL				1704.24 X
	Add GST (multiplying factor 0.1405) on "X"				239.45
	TOTAL				1943.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				291.55
	Total				2235.24 Z
	Add Cess @ 1% on "Z"				22.35
	Cost of each				2257.59
	Say				2257.60

17.11 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :

17.11.1 Size 450x300x150 mm

Details of cost for one no.

MATERIAL

1871	White vitreous china laboratory sink 450x300x150 mm	each	1.00	1500.00	1500.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	1.00	40.00	40.00
1952	C.P. brass waste 40 mm	each	1.00	95.00	95.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1895	C.P.brass trap40 mm dia	each	1.00	300.00	300.00
3617	C.P.brass union 40 mm dia	each	1.00	200.00	200.00
9999	Red lead, white lead and gaskit	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Sundries	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				2804.34 W
	Add 1 % Water charges on "W"				28.04
	TOTAL				2832.39 X
	Add GST (multiplying factor 0.1405) on "X"				397.95
	TOTAL				3230.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				484.55
	Total				3714.89 Z
	Add Cess @ 1% on "Z"				37.15
	Cost of each				3752.04
	Say				3752.05

17.11.2 Size 600x450x200 mm

Details of cost for one no.

MATERIAL

1872	White vitreous china laboratry sink 600x450x200 mm	each	1.00	2500.00	2500.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	1.00	40.00	40.00
1952	C.P. brass waste 40 mm	each	1.00	95.00	95.00
1895	C.P.brass trap40 mm dia	each	1.00	300.00	300.00
3617	C.P.brass union 40 mm dia	each	1.00	200.00	200.00
9999	Red lead, white lead and gaskit	L.S.	16.12	2.00	32.24
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Sundries	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0017	Beldar	day	0.56	320.83	179.66
	TOTAL				3804.34 W
	Add 1 % Water charges on "W"				38.04
	TOTAL				3842.39 X
	Add GST (multiplying factor 0.1405) on "X"				539.86
	TOTAL				4382.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				657.34
	Total				5039.58 Z
	Add Cess @ 1% on "Z"				50.40
	Cost of each				5089.98
	Say				5090.00
17.12	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :				
17.12.1	White glazed fire clay draining board of size 600x450x 25 mm				
	Details of cost for one no.				
	MATERIAL				
7364	White glazed fire clay draining board 600x450x25 mm	each	1.00	525.00	525.00
1309	C.I. bracket for wash basin and sinks	pair	1.00	88.00	88.00
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9999	Painting brackets etc.	L.S.	26.00	2.00	52.00
9977	Carriage of materials	L.S.	7.80	2.00	15.60
	LABOUR				
0019	Fitter (grade 1)	day	0.06	476.00	28.56
0023	Mason (brick layer) 1st class	day	0.17	476.00	80.92
0017	Beldar	day	0.22	320.83	70.58
	TOTAL				887.44 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				896.32 X
	Add GST (multiplying factor 0.1405) on "X"				125.93
	TOTAL				1022.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.34
	Total				1175.59 Z
	Add Cess @ 1% on "Z"				11.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				1187.34
	Say				1187.35
17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
17.13.1	Long pattern W.C. pan of size 580 mm				
	Details of cost for one no.				
	MATERIAL				
1953	Vitreous china indian type w.c. pan size 580 mm	each	1.00	450.00	450.00
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				902.24 W
	Add 1 % Water charges on "W"				9.02
	TOTAL				911.26 X
	Add GST (multiplying factor 0.1405) on "X"				128.03
	TOTAL				1039.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				155.89
	Total				1195.18 Z
	Add Cess @ 1% on "Z"				11.95
	Cost of each				1207.13
	Say				1207.15
17.13.2	Orissa pattern W.C. pan of size 580x440 mm				
	Details of cost for one no.				
	MATERIAL				
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	1.00	1200.00	1200.00
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1652.24 W
	Add 1 % Water charges on "W"				16.52
	TOTAL				1668.76 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				234.46
	TOTAL				1903.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				285.48
	Total				2188.70 Z
	Add Cess @ 1% on "Z"				21.89
	Cost of each				2210.59
	Say				2210.60
17.14	Extra for using coloured W.C. pan instead of white W.C. pan :				
17.14.1	Orissa pattern W.C. pan 580x440 mm				
	Details of cost for one no.				
	MATERIAL				
	Difference in cost of				
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1.00	1830.00	1830.00
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	-1.00	1200.00	-1200.00
	TOTAL				630.00 W
	Add 1 % Water charges on "W"				6.30
	TOTAL				636.30 X
	Add GST (multiplying factor 0.1405) on "X"				89.40
	TOTAL				725.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				108.86
	Total				834.56 Z
	Add Cess @ 1% on "Z"				8.35
	Cost of each				842.90
	Say				842.90
17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.				
	Details of cost for one no.				
	MATERIAL				
1955	Vitreous china pedestal type water closet	each	1.00	1000.00	1000.00
9999	Cement, sand and grit etc.	L.S.	13.39	2.00	26.78
9977	Carriage of materials	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1452.24 W
	Add 1 % Water charges on "W"				14.52
	TOTAL				1466.76 X
	Add GST (multiplying factor 0.1405) on "X"				206.08
	TOTAL				1672.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				250.93
	Total				1923.76 Z
	Add Cess @ 1% on "Z"				19.24
	Cost of each				1943.00
	Say				1943.00
17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.				
	Details of cost for one no.				
	MATERIAL				
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1.00	860.00	860.00
	Deduct				
1955	Vitreous china pedestal type water closet	each	-1.00	1000.00	-1000.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1.00	1050.00	1050.00
	Deduct				
7005	Vitreous china 10 litres low level cistern without fittings	each	-1.00	715.00	-715.00
	TOTAL				195.00 W
	Add 1 % Water charges on "W"				1.95
	TOTAL				196.95 X
	Add GST (multiplying factor 0.1405) on "X"				27.67
	TOTAL				224.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.69
	Total				258.31 Z
	Add Cess @ 1% on "Z"				2.58
	Cost of each				260.90
	Say				260.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.				
	Details of cost for 1 No.				
1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.(Hindware/ Kingston/Prima/Parko/Marc)	each	1.00	200.00	200.00
9999	Carriage of material and fixing charges	L.S.	11.20	2.00	22.40
	TOTAL				222.40 W
	Add 1 % Water charges on "W"				2.22
	TOTAL				224.62 X
	Add GST (multiplying factor 0.1405) on "X"				31.56
	TOTAL				256.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.43
	Total				294.61 Z
	Add Cess @ 1% on "Z"				2.95
	Cost of each				297.56
	Say				297.55
17.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet :				
17.17.1	250x130x30 mm				
	Details of cost for one pair				
	MATERIAL				
1363	Vitreous china foot rests 250x130x30 mm	pair	1.00	100.00	100.00
9988	Cement, sand including carriage of materials	L.S.	8.06	2.00	16.12
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
	TOTAL				144.68 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.13 X
	Add GST (multiplying factor 0.1405) on "X"				20.53
	TOTAL				166.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.00
	Total				191.66 Z
	Add Cess @ 1% on "Z"				1.92
	Cost for 1 pair				193.57
	Say				193.55
17.17.2	250x125x25 mm				
	Details of cost for one pair				
	MATERIAL				
1970	Vitreous china foot rests 250x125x25 mm	pair	1.00	100.00	100.00
9988	Cement, sand including carriage of materials	L.S.	8.06	2.00	16.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
	TOTAL				144.68 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.13 X
	Add GST (multiplying factor 0.1405) on "X"				20.53
	TOTAL				166.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.00
	Total				191.66 Z
	Add Cess @ 1% on "Z"				1.92
	Cost for 1 pair				193.57
	Say				193.55
17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
17.18.1	10 litre capacity - White				
	Details of cost for one no.				
	MATERIAL				
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	1.00	575.00	575.00
9977	Carriage of materials	L.S.	5.20	2.00	10.40
	LABOUR				
	(Considering 1 fitter and 1 beldar can fix 8 cistern in one day)				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0017	Beldar	day	0.125	320.83	40.10
	TOTAL				685.00 W
	Add 1 % Water charges on "W"				6.85
	TOTAL				691.85 X
	Add GST (multiplying factor 0.1405) on "X"				97.21
	TOTAL				789.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.36
	Total				907.42 Z
	Add Cess @ 1% on "Z"				9.07
	Cost of each				916.49
	Say				916.50
17.18.2	10 litre capacity - coloured				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7123	Coloured High density polythylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	1	550.00	550.00
9977	Carriage of materials	L.S.	7.02	2.00	14.04
	LABOUR				
	(Considering 1 fitter and 1 beldar can fix 8 cistern in one day)				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0017	Beldar	day	0.125	320.83	40.10
	TOTAL				663.64 W
	Add 1 % Water charges on "W"				6.64
	TOTAL				670.28 X
	Add GST (multiplying factor 0.1405) on "X"				94.17
	TOTAL				764.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				114.67
	Total				879.12 Z
	Add Cess @ 1% on "Z"				8.79
	Cost of each				887.91
	Say				887.90
17.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.				
17.19.1	10 litre (full flush) capacity-white				
	Details of cost for one no.				
	MATERIAL				
7126	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	1	700.00	700.00
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1125.46 W
	Add 1 % Water charges on "W"				11.25
	TOTAL				1136.71 X
	Add GST (multiplying factor 0.1405) on "X"				159.71
	TOTAL				1296.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				194.46
	Total				1490.88 Z
	Add Cess @ 1% on "Z"				14.91
	Cost of each				1505.79
	Say				1505.80
17.19.2	10 litre (full flush) capacity-coloured				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
7127	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	1	1150.00	1150.00
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				1575.46 W
	Add 1 % Water charges on "W"				15.75
	TOTAL				1591.21 X
	Add GST (multiplying factor 0.1405) on "X"				223.56
	TOTAL				1814.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				272.22
	Total				2086.99 Z
	Add Cess @ 1% on "Z"				20.87
	Cost of each				2107.86
	Say				2107.85
17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
17.20.1	White solid plastic seat with lid				
	Details of cost for one no.				
	MATERIAL				
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1	400.00	400.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78
	TOTAL				426.78 W
	Add 1 % Water charges on "W"				4.27
	TOTAL				431.05 X
	Add GST (multiplying factor 0.1405) on "X"				60.56
	TOTAL				491.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.74
	Total				565.35 Z
	Add Cess @ 1% on "Z"				5.65
	Cost of each				571.01
	Say				571.00
17.20.2	Black solid plastic seat with lid				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	1	310.00	310.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78
	TOTAL				336.78 W
	Add 1 % Water charges on "W"				3.37
	TOTAL				340.15 X
	Add GST (multiplying factor 0.1405) on "X"				47.79
	TOTAL				387.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.19
	Total				446.13 Z
	Add Cess @ 1% on "Z"				4.46
	Cost of each				450.59
	Say				450.60
17.20.3	Coloured (other than black & white) solid plastic seat with lid				
	Details of cost for one no.				
	MATERIAL				
	Difference in cost of				
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	1	390.00	390.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78
	TOTAL				416.78 W
	Add 1 % Water charges on "W"				4.17
	TOTAL				420.95 X
	Add GST (multiplying factor 0.1405) on "X"				59.14
	TOTAL				480.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				72.01
	Total				552.10 Z
	Add Cess @ 1% on "Z"				5.52
	Cost of each				557.63
	Say				557.65
17.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.				
	Details of cost for one no.				
	MATERIAL				
1614	G.I. inlet connection	each	1	60.00	60.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				86.78 W
	Add 1 % Water charges on "W"				0.87
	TOTAL				87.65 X
	Add GST (multiplying factor 0.1405) on "X"				12.31
	TOTAL				99.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.99
	Total				114.96 Z
	Add Cess @ 1% on "Z"				1.15
	Cost of each				116.11
	Say				116.10
17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.				
	Details of cost for 1 no.				
	MATERIAL				
7121	Bottle Trap (Hindware/ Kingston/ Prima/ Parko / Marc)	each	1	620.00	620.00
9988	Carriage and sundries	L.S.	20.00	2.00	40.00
	TOTAL				660.00 W
	Add 1 % Water charges on "W"				6.60
	TOTAL				666.60 X
	Add GST (multiplying factor 0.1405) on "X"				93.66
	TOTAL				760.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				114.04
	Total				874.30 Z
	Add Cess @ 1% on "Z"				8.74
	Cost of each				883.04
	Say				883.05
17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge.				
	(a) 15 mm nominal dia				
	Details of cost for 1 no.				
	MATERIAL				
7122	CP Brass Single lever telephonic wall mixer of approved make (Hindware/Kingston/ Prima /Parko/ Mark)	each	1	4500.00	4500.00
9977	Carriage of material and fixing charges	L.S.	34.71	2.00	69.42
	TOTAL				4569.42 W
	Add 1 % Water charges on "W"				45.69
	TOTAL				4615.11 X
	Add GST (multiplying factor 0.1405) on "X"				648.42
	TOTAL				5263.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				789.53
	Total				6053.07 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				60.53
	Cost of each				6113.60
	Say				6113.60
17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.				
	Details of cost for one no.				
	MATERIAL				
1913	Vitreous china lipped front urinal	each	1	460.00	460.00
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	LABOUR				
0019	Fitter (grade 1)	day	0.38	476.00	180.88
0017	Beldar	day	0.38	320.83	121.92
	TOTAL				781.78 W
	Add 1 % Water charges on "W"				7.82
	TOTAL				789.59 X
	Add GST (multiplying factor 0.1405) on "X"				110.94
	TOTAL				900.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				135.08
	Total				1035.61 Z
	Add Cess @ 1% on "Z"				10.36
	Cost of each				1045.97
	Say				1045.95
17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.				
	Details of cost for one no.				
	MATERIAL				
1915	Vitreous china squatting plate urinal	each	1	1053.00	1053.00
9999	Cement, sand and grit etc.	L.S.	10.79	2.00	21.58
9977	Carriage of materials	L.S.	13.39	2.00	26.78
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				1898.19 W
	Add 1 % Water charges on "W"				18.98
	TOTAL				1917.17 X
	Add GST (multiplying factor 0.1405) on "X"				269.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2186.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				327.98
	Total				2514.51 Z
	Add Cess @ 1% on "Z"				25.15
	Cost of each				2539.66
	Say				2539.65
17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
17.25.1	Flat back wash basin of size 630x450 mm				
	Details of cost for one no.				
	MATERIAL				
1947	Vitreous china flat back wash basin 630x450 mm	each	1	725.00	725.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				851.62 W
	Add 1 % Water charges on "W"				8.52
	TOTAL				860.14 X
	Add GST (multiplying factor 0.1405) on "X"				120.85
	TOTAL				980.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.15
	Total				1128.13 Z
	Add Cess @ 1% on "Z"				11.28
	Cost of each				1139.41
	Say				1139.40
17.25.2	Flat back wash basin of size 550x400 mm				
	Details of cost for one no.				
	MATERIAL				
3229	Vitreous china flat back wash basin 550x400 mm	each	1	545.00	545.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				671.62 W
	Add 1 % Water charges on "W"				6.72
	TOTAL				678.34 X
	Add GST (multiplying factor 0.1405) on "X"				95.31
	TOTAL				773.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				116.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				889.69 Z
	Add Cess @ 1% on "Z"				8.90
	Cost of each				898.59
	Say				898.60
17.25.3	Angle back wash basin of size 600x480 mm				
	Details of cost for one no.				
	MATERIAL				
1949	Vitreous china angle back wash basin 600x480 mm	each	1	725.00	725.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				851.62 W
	Add 1 % Water charges on "W"				8.52
	TOTAL				860.14 X
	Add GST (multiplying factor 0.1405) on "X"				120.85
	TOTAL				980.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.15
	Total				1128.13 Z
	Add Cess @ 1% on "Z"				11.28
	Cost of each				1139.41
	Say				1139.40
17.25.4	Angle back wash basin of size 400x400 mm				
	Details of cost for one no.				
	MATERIAL				
1950	Vitreous china angle back wash basin 400x400 mm	each	1	425.00	425.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				551.62 W
	Add 1 % Water charges on "W"				5.52
	TOTAL				557.14 X
	Add GST (multiplying factor 0.1405) on "X"				78.28
	TOTAL				635.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				95.31
	Total				730.73 Z
	Add Cess @ 1% on "Z"				7.31
	Cost of each				738.03
	Say				738.05
17.25.5	Flat back wash basin of size 450x300 mm				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7004	Vitreous china flat back wash basin 450x300 mm	each	1	310.00	310.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				436.62 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				440.99 X
	Add GST (multiplying factor 0.1405) on "X"				61.96
	TOTAL				502.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.44
	Total				578.39 Z
	Add Cess @ 1% on "Z"				5.78
	Cost of each				584.17
	Say				584.15

17.25.6 Surgeon type wash basin of size 660x460 mm

Details of cost for one no.

	MATERIAL				
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1	1000.00	1000.00
9999	Fixing charges	L.S.	53.82	2.00	107.64
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	TOTAL				1126.62 W
	Add 1 % Water charges on "W"				11.27
	TOTAL				1137.89 X
	Add GST (multiplying factor 0.1405) on "X"				159.87
	TOTAL				1297.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				194.66
	Total				1492.42 Z
	Add Cess @ 1% on "Z"				14.92
	Cost of each				1507.35
	Say				1507.35

17.26 Providing and fixing kitchen sink including making all connections excluding cost of fittings.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.26.1	White glazed fire clay sink of size 600x450x250 mm				
	Details of cost for one no.				
	MATERIAL				
1863	Fire clay kitchen sink: 600x450x250 mm	each	1	1283.00	1283.00
9999	Fixing charges	L.S.	40.43	2.00	80.86
9977	Carriage of materials	L.S.	10.79	2.00	21.58
	TOTAL				1385.44 W
	Add 1 % Water charges on "W"				13.85
	TOTAL				1399.29 X
	Add GST (multiplying factor 0.1405) on "X"				196.60
	TOTAL				1595.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				239.38
	Total				1835.28 Z
	Add Cess @ 1% on "Z"				18.35
	Cost of each				1853.63
	Say				1853.65
17.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings :				
17.27.1	Size 450x300x150 mm				
	Details of cost for one no.				
	MATERIAL				
1871	White vitreous china laboratory sink 450x300x150 mm	each	1	1500.00	1500.00
9999	Fixing charges	L.S.	40.43	2.00	80.86
9977	Carriage of materials	L.S.	10.79	2.00	21.58
	TOTAL				1602.44 W
	Add 1 % Water charges on "W"				16.02
	TOTAL				1618.46 X
	Add GST (multiplying factor 0.1405) on "X"				227.39
	TOTAL				1845.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				276.88
	Total				2122.74 Z
	Add Cess @ 1% on "Z"				21.23
	Cost of each				2143.96
	Say				2143.95
17.27.2	Size 600x450x200 mm				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1872	White vitreous china laboratory sink 600x450x200 mm	each	1	2500.00	2500.00
9999	Fixing charges	L.S.	40.43	2.00	80.86
9977	Carriage of materials	L.S.	10.79	2.00	21.58
	TOTAL				2602.44 W
	Add 1 % Water charges on "W"				26.02
	TOTAL				2628.46 X
	Add GST (multiplying factor 0.1405) on "X"				369.30
	TOTAL				2997.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				449.66
	Total				3447.43 Z
	Add Cess @ 1% on "Z"				34.47
	Cost of each				3481.90
	Say				3481.90
17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
17.28.1	Semi rigid pipe				
17.28.1.1	32 mm dia				
	Details of cost for one no.				
	MATERIAL				
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	1	25.00	25.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				65.56 W
	Add 1 % Water charges on "W"				0.66
	TOTAL				66.22 X
	Add GST (multiplying factor 0.1405) on "X"				9.30
	TOTAL				75.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.33
	Total				86.85 Z
	Add Cess @ 1% on "Z"				0.87
	Cost of each				87.72
	Say				87.70
17.28.1.2	40 mm dia				
	Details of cost for one no.				
	MATERIAL				
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less	each	1	33.00	33.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	than 700 mm i/c PVC waste fittings Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				73.56 W
	Add 1 % Water charges on "W"				0.74
	TOTAL				74.30 X
	Add GST (multiplying factor 0.1405) on "X"				10.44
	TOTAL				84.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.71
	Total				97.44 Z
	Add Cess @ 1% on "Z"				0.97
	Cost of each				98.42
	Say				98.40
17.28.2	Flexible pipe				
17.28.2.1	32 mm dia				
	Details of cost for one no.				
	MATERIAL				
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	1	35.00	35.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				75.56 W
	Add 1 % Water charges on "W"				0.76
	TOTAL				76.32 X
	Add GST (multiplying factor 0.1405) on "X"				10.72
	TOTAL				87.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				13.06
	Total				100.09 Z
	Add Cess @ 1% on "Z"				1.00
	Cost of each				101.09
	Say				101.10
17.28.2.2	40 mm dia				
	Details of cost for one no.				
	MATERIAL				
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	1	35.00	35.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				75.56 W
	Add 1 % Water charges on "W"				0.76
	TOTAL				76.32 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				10.72
	TOTAL				87.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				13.06
	Total				100.09 Z
	Add Cess @ 1% on "Z"				1.00
	Cost of each				101.09
	Say				101.10
17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.				
	Details of cost for one no.				
	MATERIAL				
1369	S.C.I. gully or nahani grating 100 mm dia	each	1	25.00	25.00
9988	Carriage of materials and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				33.32 W
	Add 1 % Water charges on "W"				0.33
	TOTAL				33.65 X
	Add GST (multiplying factor 0.1405) on "X"				4.73
	TOTAL				38.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.76
	Total				44.14 Z
	Add Cess @ 1% on "Z"				0.44
	Cost of each				44.58
	Say				44.60
17.30	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.				
	Details of cost for one no.				
	MATERIAL				
1350	Mosquito proof coupling of approved design	each	1	30.00	30.00
9988	Carriage of materials and fixing charges	L.S.	1.82	2.00	3.64
	TOTAL				33.64 W
	Add 1 % Water charges on "W"				0.34
	TOTAL				33.98 X
	Add GST (multiplying factor 0.1405) on "X"				4.77
	TOTAL				38.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				44.56 Z
	Add Cess @ 1% on "Z"				0.45
	Cost of each				45.01
	Say				45.00
17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
	Details of cost for one no.				
	MATERIAL				
1392	Mirror of superior make glass 60x45 cm	each	1	400.00	400.00
7116	Hard board 6 mm thick 600x450 mm	sqm	0.27	115.00	31.05
	Wooden cleats				
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	4	25.40	101.60 A
588	Chromium plated Brass screws 25 mm	100 Nos	0.04	180.00	7.20
9977	Carriage of materials	L.S.	4.16	2.00	8.32
9999	Sundries	L.S.	1.43	2.00	2.86
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				780.49 W
	Add 1 % Water charges on "W-A"	678.89			6.79
	TOTAL				787.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	685.68			96.34
	TOTAL				883.62 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	782.02			117.30
	Total				1000.92 Z
	Add Cess @ 1% on "Z-A"	899.32			8.99
	Cost of each				1009.91
	Say				1009.90
17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
17.32.1	Circular shape 450 mm dia				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame Hard board $0.45 \times 0.45 = 0.2025$ sqm Add wastage @ 10% = 0.0203 sqm = 0.2228 sqm say 0.22sqm	each	1	430.00	430.00
7116	Hard board 6 mm thick	sqm	0.22	115.00	25.30
7048	Rawl plug 50 mm (designation 10 no.)	each	2	25.00	50.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.02	180.00	3.60
9999	Sundries	L.S.	1.43	2.00	2.86
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				749.54 W
	Add 1 % Water charges on "W"				7.50
	TOTAL				757.03 X
	Add GST (multiplying factor 0.1405) on "X"				106.36
	TOTAL				863.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				129.51
	Total				992.91 Z
	Add Cess @ 1% on "Z"				9.93
	Cost of each				1002.84
	Say				1002.85
17.32.2	Rectangular shape 453x357 mm				
	Details of cost for one no.				
	MATERIAL				
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame Hard board $0.453 \times 0.357 = 0.1617$ sqm Add wastage @ 10% = 0.0162 sqm = 0.1779 sqm say 0.18 sqm	each	1.0	290.00	290.00
7116	Hard board 6 mm thick	sqm	0.18	115.00	20.70
7048	Rawl plug 50 mm (designation 10 no.)	each	4.00	25.00	100.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.04	180.00	7.20
9999	Sundries	L.S.	1.43	2.00	2.86
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				658.54 W
	Add 1 % Water charges on "W"				6.59
	TOTAL				665.12 X
	Add GST (multiplying factor 0.1405) on "X"				93.45
	TOTAL				758.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				113.79
	Total				872.36 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				8.72
	Cost of each				881.08
	Say				881.10
17.32.3	Oval shape 450x350 mm (outer dimensions)				
	Details of cost for one no.				
	MATERIAL				
7114	Ovel shape 450x350 mm (outer dimensions)	each	1.00	340.00	340.00
	Mirror with Plastic moulded frame				
	Hard board 0.45x0.35=0.1575 sqm				
	Add wastage @ 10% = 0.0158 sqm				
	= 0.1733 sqm say 0.17 sqm				
7116	Hard board 6 mm thick	sqm	0.17	115.00	19.55
7048	Rawl plug 50 mm (designation 10 no.)	each	4.00	25.00	100.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.04	180.00	7.20
9999	Sundries	L.S.	1.43	2.00	2.86
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				707.39 W
	Add 1 % Water charges on "W"				7.07
	TOTAL				714.46 X
	Add GST (multiplying factor 0.1405) on "X"				100.38
	TOTAL				814.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				122.23
	Total				937.07 Z
	Add Cess @ 1% on "Z"				9.37
	Cost of each				946.44
	Say				946.45
17.32.4	Rectangular shape 1500x450 mm				
	Details of cost for one no.				
	MATERIAL				
7115	Rectangular shape 1500x450 mm Mirror	each	1.00	670.00	670.00
	with Plastic moulded frame Hard board 1.50x0.45 =				
	0.675 sqm				
	Add wastage @ 10% = 0.0675 sqm				
	= 0.7425 sqm say 0.74sqm				
7116	Hard board 6 mm thick	sqm	0.74	115.00	85.10
7048	Rawl plug 50 mm (designation 10 no.)	each	6.00	25.00	150.00
588	Chromium plated Brass screws 25 mm	100 Nos	0.06	180.00	10.80
9999	Sundries	L.S.	1.43	2.00	2.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.33	374.50	123.59
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				1156.54 W
	Add 1 % Water charges on "W"				11.57
	TOTAL				1168.10 X
	Add GST (multiplying factor 0.1405) on "X"				164.12
	TOTAL				1332.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				199.83
	Total				1532.06 Z
	Add Cess @ 1% on "Z"				15.32
	Cost of each				1547.38
	Say				1547.40
17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.				
	Details of cost for one no.				
	MATERIAL				
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	1	250.00	250.00
7048	Rawl plug 50 mm (designation 10 no.)	each	2	25.00	50.00
586	Chromium plated Brass screws 40 mm	100 Nos	0.04	290.00	11.60
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				493.75 W
	Add 1 % Water charges on "W"				4.94
	TOTAL				498.69 X
	Add GST (multiplying factor 0.1405) on "X"				70.07
	TOTAL				568.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.31
	Total				654.07 Z
	Add Cess @ 1% on "Z"				6.54
	Cost of each				660.61
	Say				660.60
17.34	Providing and fixing toilet paper holder :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.34.1	C.P. brass				
	Details of cost for one no.				
	MATERIAL				
1889	C.P.brass toilet paper holder of standard size	each	1	225.00	225.00
	Wooden cleats				
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	2	25.40	50.80 A
588	Chromium plated Brass screws 25 mm	100 Nos	0.02	180.00	3.60
9977	Carriage of materials	L.S.	4.29	2.00	8.58
	LABOUR				
0015	Carpenter 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				371.42 W
	Add 1 % Water charges on "W-A"	320.62			3.21
	TOTAL				374.63 X
	Add GST (multiplying factor 0.1405) on "X-A"	323.83			45.50
	TOTAL				420.12 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	369.32			55.40
	Total				475.52 Z
	Add Cess @ 1% on "Z-A"	424.72			4.25
	Cost of each				479.77
	Say				479.75
17.34.2	Vitreous china				
	Details of cost of one no.				
	MATERIAL				
3749	Vitreous china toilet paper holder of standard size	each	1	100.0	100.00
	Wooden cleats				
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	2	25.40	50.80 A
588	Chromium plated Brass screws 25 mm	100 Nos	0.06	180.00	10.80
9977	Carriage of materials	L.S.	4.29	2.00	8.58
	LABOUR				
0015	Carpenter 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.12	320.83	38.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				253.62 W
	Add 1 % Water charges on "W-A"	202.82			2.03
	TOTAL				255.65 X
	Add (multiplying factor 0.1405) on "X-A"	204.85			28.78
	TOTAL				284.43 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	233.63			35.04
	Total				319.47 Z
	Add Cess @ 1% on "Z-A"	268.67			2.69
	Cost of each				322.16
	Say				322.15

17.35 Providing and fixing soil, waste and vent pipes :

17.35.1 100 mm dia

17.35.1.1 Sand cast iron S&S pipe as per IS: 1729

Details of cost for 17.37 m

(1.8mx10)-(9x0.07m) = 17.37 m

MATERIAL

1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	10.5	1135.00	11917.50
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	53.82	2.00	107.64

LABOUR

0019	Fitter (grade 1)	day	0.42	476.00	199.92
0010	Bandhani	day	0.21	320.83	67.37
0017	Beldar	day	0.83	320.83	266.29

TOTAL 12720.18 W

Add 1 % Water charges on "W" 127.20

TOTAL 12847.39 X

Add GST (multiplying factor 0.1405) on "X" 1805.06

TOTAL 14652.44 Y

Add 15 % Contractor's profit and overheads on "Y" 2197.87

Total 16850.31 Z

Add Cess @ 1% on "Z" 168.50

Cost for 17.37 m pan 17018.81

Cost per metre 979.78

Say 979.80

17.35.1.2 Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989

Details of cost for 16.87 m

(1.75mx10)-(9x0.07m) = 16.87 m

MATERIAL

3620	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	10.5	1200.00	12600.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	53.82	2.00	107.64
	LABOUR				
0019	Fitter (grade 1)	day	0.42	476.00	199.92
0010	Bandhani	day	0.21	320.83	67.37
0017	Beldar	day	0.83	320.83	266.29
	TOTAL				13402.68 W
	Add 1 % Water charges on "W"				134.03
	TOTAL				13536.71 X
	Add GST (multiplying factor 0.1405) on "X"				1901.91
	TOTAL				15438.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				2315.79
	Total				17754.41 Z
	Add Cess @ 1% on "Z"				177.54
	Cost for 16.87 m pan				17931.95
	Cost per metre				1062.95
	Say				1062.95
17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905				
	Detail of cost for 18.00 m (6 x 3.00 m)				
	MATERIAL				
7621	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm dia (3000 mm length pipe) i/c (3% wastage)	metre	18.54	700.00	12978.00
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	53.82	2.00	107.64
	LABOUR				
0019	Fitter (grade 1)	day	0.42	476.00	199.92
0010	Bandhani	day	0.21	320.83	67.37
0017	Beldar	day	0.83	320.83	266.29
	TOTAL				13780.68 W
	Add 1 % Water charges on "W"				137.81
	TOTAL				13918.49 X
	Add GST (multiplying factor 0.1405) on "X"				1955.55
	TOTAL				15874.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				2381.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				18255.14 Z
	Add Cess @ 1% on "Z"				182.55
	Cost of 18.00 metre				18437.69
	Cost of 1 metre				1024.32
	Say				1024.30
17.35.2	75 mm diameter :				
17.35.2.1	Sand cast iron S&S pipe as per IS: 1729				
	Details of cost for 17.42 m				
	(1.8mx10)-(9x0.065m) = 17.415 m say				
	17.42 m				
	MATERIAL				
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long:75mm dia	each	10.5	1050.00	11025.00
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	40.38	2.00	80.76
	LABOUR				
0019	Fitter (grade 1)	day	0.35	476.00	166.60
0010	Bandhani	day	0.17	320.83	54.54
0017	Beldar	day	0.7	320.83	224.58
	TOTAL				11712.94 W
	Add 1 % Water charges on "W"				117.13
	TOTAL				11830.07 X
	Add GST (multiplying factor 0.1405) on "X"				1662.13
	TOTAL				13492.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				2023.83
	Total				15516.03 Z
	Add Cess @ 1% on "Z"				155.16
	Cost for 17.42 m pan				15671.19
	Cost per metre				899.61
	Say				899.60

17.35.2.2 Centrifugally cast (spun) iron socketed pipe as per IS: 3989

Details of cost for 16.92 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(1.75mx10)-(9x0.065m) = 16.915 m say 16.92 m				
	MATERIAL				
3621	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia including 5% allowance for wastage	each	10.5	1100.00	11550.00
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	40.38	2.00	80.76
	LABOUR				
0019	Fitter (grade 1)	day	0.35	476.00	166.60
0010	Bandhani	day	0.17	320.83	54.54
0017	Beldar	day	0.7	320.83	224.58
	TOTAL				12237.94 W
	Add 1 % Water charges on "W"				122.38
	TOTAL				12360.32 X
	Add GST (multiplying factor 0.1405) on "X"				1736.63
	TOTAL				14096.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				2114.54
	Total				16211.49 Z
	Add Cess @ 1% on "Z"				162.11
	Cost for 16.92 m pan				16373.60
	Cost per metre				967.71
	Say				967.70
17.35.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905				
	Detail of cost for 18.00 m (6 x 3.00 m)				
	MATERIAL				
7622	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe) i/c (3% wastage)	metre	18.54	570.00	10567.80
9999	Scaffolding	L.S.	80.73	2.00	161.46
9977	Carriage of materials	L.S.	40.38	2.00	80.76
	LABOUR				
0019	Fitter (grade 1)	day	0.35	476.00	166.60
0010	Bandhani	day	0.17	320.83	54.54
0017	Beldar	day	0.7	320.83	224.58
	TOTAL				11255.74 W
	Add 1 % Water charges on "W"				112.56
	TOTAL				11368.30 X
	Add GST (multiplying factor 0.1405) on "X"				1597.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				12965.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				1944.83
	Total				14910.38 Z
	Add Cess @ 1% on "Z"				149.10
	Cost of 18.00 metre				15059.48
	Cost of 1 metre				836.64
	Say				836.65
17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
17.36.1	75 mm dia pipe				
	Details of cost for 4 joints				
	MATERIAL				
9999	Cement mortar, spun yarn etc.	L.S.	6.89	2.00	13.78
	LABOUR				
0019	Fitter (grade 1)	day	0.28	476.00	133.28
0017	Beldar	day	0.28	320.83	89.83
	TOTAL				236.89 W
	Add 1 % Water charges on "W"				2.37
	TOTAL				239.26 X
	Add GST (multiplying factor 0.1405) on "X"				33.62
	TOTAL				272.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.93
	Total				313.81 Z
	Add Cess @ 1% on "Z"				3.14
	Cost of 4 joints				316.95
	Cost of 1 joint				79.24
	Say				79.25
17.36.2	100 mm dia pipe				
	Details of cost for 4 joints				
	MATERIAL				
9999	Cement mortar, spun yarn etc.	L.S.	8.06	2.00	16.12
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				279.07 W
	Add 1 % Water charges on "W"				2.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				281.86 X
	Add GST (multiplying factor 0.1405) on "X"				39.60
	TOTAL				321.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.22
	Total				369.69 Z
	Add Cess @ 1% on "Z"				3.70
	Cost of 4 joints				373.38
	Cost of 1 joint				93.35
	Say				93.35
17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
17.37.1	For 100 mm dia pipe				
	Details of cost for 5 nos.				
	MATERIAL				
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	5	30.00	150.00
9977	Carriage of bat clamps	L.S.	2.47	2.00	4.94
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.5	320.83	160.42
9999	Sundries	L.S.	7.15	2.00	14.30
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1350.00	4.46
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1350.00	1.49
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0044	106.13	0.47
982	Coarse sand	cum	0.0022	1350.00	2.97
2203	Carriage of Coarse sand	cum	0.0022	106.13	0.23
367	Portland Cement (OPC-43 grade)	tonne	0.0016	4940.00	7.90
2209	Carriage of Cement	tonne	0.0016	94.34	0.15
0017	Beldar	day	0.0045	320.83	1.44
0018	Coolie	day	0.0032	320.83	1.03
0011	Bhisti	day	0.0014	320.83	0.45
0023	Mason (brick layer) 1st class	day	0.0003	476.00	0.14
0024	Mason (brick layer) 2nd class	day	0.0003	374.50	0.11
0028	Mate	day	0.0002	320.83	0.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Hire charges of machine etc.	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
9999	Sundries	L.S.	0.13	2.00	0.26
	TOTAL				691.97 W
	Add 1 % Water charges on "W"				6.92
	TOTAL				698.89 X
	Add GST (multiplying factor 0.1405) on "X"				98.19
	TOTAL				797.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				119.56
	Total				916.65 Z
	Add Cess @ 1% on "Z"				9.17
	Cost of 5.00 bat clamps				925.82
	Cost of each				185.16
	Say				185.15
17.37.2	For 75 mm dia pipe				
	Details of cost for 5 nos.				
	MATERIAL				
1332	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	5	27.00	135.00
9977	Carriage of bat clamps	L.S.	2.47	2.00	4.94
	LABOUR				
0019	Fitter (grade 1)	day	0.125	476.00	59.50
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	0.5	320.83	160.42
9999	Sundries	L.S.	7.15	2.00	14.30
	C.C. Black 5x0.1x0.1x0.1 = 0.005 cum				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1350.00	4.46
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1350.00	1.49
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.0044	106.13	0.47
982	Coarse sand	cum	0.0022	1350.00	2.97
2203	Carriage of Coarse sand	cum	0.0022	106.13	0.23
367	Portland Cement (OPC-43 grade)	tonne	0.0016	4940.00	7.90
2209	Carriage of Cement	tonne	0.0016	94.34	0.15
0017	Beldar	day	0.0045	320.83	1.44
0018	Coolie	day	0.0032	320.83	1.03
0011	Bhisti	day	0.0014	320.83	0.45
0023	Mason (brick layer) 1st class	day	0.0003	476.00	0.14
0024	Mason (brick layer) 2nd class	day	0.0003	374.50	0.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0028	Mate	day	0.0002	320.83	0.06
9999	Hire charges of machine etc.	L.S.	0.26	2.00	0.52
9999	Sundries	L.S.	0.13	2.00	0.26
9999	Sundries	L.S.	0.13	2.00	0.26
	TOTAL				676.97 W
	Add 1 % Water charges on "W"				6.77
	TOTAL				683.74 X
	Add GST (multiplying factor 0.1405) on "X"				96.07
	TOTAL				779.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				116.97
	Total				896.78 Z
	Add Cess @ 1% on "Z"				8.97
	Cost of 5.00 bat clamps				905.75
	Cost of each				181.15
	Say				181.15
17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
17.38.1	100 mm dia				
17.38.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1625	S.C.I. bend with access door 100mm dia	each	1	300.00	300.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				345.04 W
	Add 1 % Water charges on "W"				3.45
	TOTAL				348.49 X
	Add GST (multiplying factor 0.1405) on "X"				48.96
	TOTAL				397.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.62
	Total				457.07 Z
	Add Cess @ 1% on "Z"				4.57
	Cost of each				461.64
	Say				461.65
17.38.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3624	S.C.I. S&S bends with access door 100mm dia	each	1	300.00	300.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				345.04 W
	Add 1 % Water charges on "W"				3.45
	TOTAL				348.49 X
	Add GST (multiplying factor 0.1405) on "X"				48.96
	TOTAL				397.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.62
	Total				457.07 Z
	Add Cess @ 1% on "Z"				4.57
	Cost of each				461.64
	Say				461.65
17.38.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7639	Hubless centrifugally cast (spun) iron bend with acces:	each	1	365.00	365.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				410.04 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.14 X
	Add GST (multiplying factor 0.1405) on "X"				58.19
	TOTAL				472.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.85
	Total				543.18 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of each				548.61
	Say				548.60
17.38.2	75 mm dia				
17.38.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1624	S.C.I. bend with access door 75mm dia	each	1	240.00	240.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				277.58 W
	Add 1 % Water charges on "W"				2.78
	TOTAL				280.36 X
	Add GST (multiplying factor 0.1405) on "X"				39.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				319.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.96
	Total				367.71 Z
	Add Cess @ 1% on "Z"				3.68
	Cost of each				371.38
	Say				371.40
17.38.2.2	Sand cast iron S&S as per IS- 3989				
	Details of cost for one no.				
	MATERIAL				
3625	S.C.I. S&S bends with access door 75mm dia	each	1	250.00	250.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				287.58 W
	Add 1 % Water charges on "W"				2.88
	TOTAL				290.46 X
	Add GST (multiplying factor 0.1405) on "X"				40.81
	TOTAL				331.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.69
	Total				380.95 Z
	Add Cess @ 1% on "Z"				3.81
	Cost of each				384.76
	Say				384.75
17.38.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7640	Hubless centrifugally cast (spun) iron bend with access door - 75 mm dia as per IS 15905 including cost of bolts & nuts.	each	1	290.00	290.00
1373	Rubber insertions for 80 mm dia pipe joints 3mm thick	each	1	16.00	16.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				327.58 W
	Add 1 % Water charges on "W"				3.28
	TOTAL				330.86 X
	Add GST (multiplying factor 0.1405) on "X"				46.49
	TOTAL				377.34 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				56.60
	Total				433.94 Z
	Add Cess @ 1% on "Z"				4.34
	Cost of each				438.28
	Say				438.30
17.39	Providing and fixing plain bend of required degree.				
17.39.1	100 mm dia				
17.39.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1621	S.C.I. plain bend 100 mm dia	each	1	258.00	258.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				285.04 W
	Add 1 % Water charges on "W"				2.85
	TOTAL				287.89 X
	Add GST (multiplying factor 0.1405) on "X"				40.45
	TOTAL				328.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.25
	Total				377.59 Z
	Add Cess @ 1% on "Z"				3.78
	Cost of each				381.37
	Say				381.35
17.39.1.2	Sand cast iron S&S as per IS : 3989				
	Details of cost for one no.				
	MATERIAL				
3628	S.C.I. S&S bend 100mm dia	each	1	265.00	265.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				292.04 W
	Add 1 % Water charges on "W"				2.92
	TOTAL				294.96 X
	Add GST (multiplying factor 0.1405) on "X"				41.44
	TOTAL				336.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.46
	Total				386.86 Z
	Add Cess @ 1% on "Z"				3.87
	Cost of each				390.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				390.75
17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7623	Hubless centrifugally cast (spun) iron plain bend as per IS 15905- 100 mm dia	each	1	230.00	230.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				257.04 W
	Add 1 % Water charges on "W"				2.57
	TOTAL				259.61 X
	Add GST (multiplying factor 0.1405) on "X"				36.48
	TOTAL				296.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				44.41
	Total				340.50 Z
	Add Cess @ 1% on "Z"				3.40
	Cost of each				343.90
	Say				343.90
17.39.2	75 mm dia				
17.39.2.1	Sand cast iron S&S as per IS -1729				
	Details of cost for one no.				
	MATERIAL				
1620	S.C.I. plain bend 75 mm dia	each	1	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				231.58 W
	Add 1 % Water charges on "W"				2.32
	TOTAL				233.90 X
	Add GST (multiplying factor 0.1405) on "X"				32.86
	TOTAL				266.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.01
	Total				306.77 Z
	Add Cess @ 1% on "Z"				3.07
	Cost of each				309.84
	Say				309.85
17.39.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
3629	S.C.I. S&S bend 75mm dia	each	1	195.00	195.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				216.58 W
	Add 1 % Water charges on "W"				2.17
	TOTAL				218.75 X
	Add GST (multiplying factor 0.1405) on "X"				30.73
	TOTAL				249.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.42
	Total				286.90 Z
	Add Cess @ 1% on "Z"				2.87
	Cost of each				289.77
	Say				289.75

17.39.2.3 Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905

Detail of cost for one no.

MATERIAL

7624	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia	each	1	160.00	160.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				181.58 W
	Add 1 % Water charges on "W"				1.82
	TOTAL				183.40 X
	Add GST (multiplying factor 0.1405) on "X"				25.77
	TOTAL				209.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.37
	Total				240.54 Z
	Add Cess @ 1% on "Z"				2.41
	Cost of each				242.94
	Say				242.95

17.40 Providing and fixing heel rest sanitary bend

17.40.1 100 mm dia

17.40.1.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

1667	Sand cast iron heel rest bend 100mm dia	each	1	347.00	347.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				374.04 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.74
	TOTAL				377.78 X
	Add GST (multiplying factor 0.1405) on "X"				53.08
	TOTAL				430.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.63
	Total				495.49 Z
	Add Cess @ 1% on "Z"				4.95
	Cost of each				500.44
	Say				500.45
17.40.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3634	S.C.I. S&S heel rest sanitary bend 100mm dia	each	1	296.00	296.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				323.04 W
	Add 1 % Water charges on "W"				3.23
	TOTAL				326.27 X
	Add GST (multiplying factor 0.1405) on "X"				45.84
	TOTAL				372.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.82
	Total				427.93 Z
	Add Cess @ 1% on "Z"				4.28
	Cost of each				432.21
	Say				432.20
17.40.2	75 mm dia				
17.40.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1666	Sand cast iron heel rest bend 75mm dia	each	1	274.00	274.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				295.58 W
	Add 1 % Water charges on "W"				2.96
	TOTAL				298.54 X
	Add GST (multiplying factor 0.1405) on "X"				41.94
	TOTAL				340.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.07
	Total				391.55 Z
	Add Cess @ 1% on "Z"				3.92
	Cost of each				395.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				395.45
17.40.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3635	S.C.I. S&S heel rest sanitary bend 75mm dia	each	1	250.00	250.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				271.58 W
	Add 1 % Water charges on "W"				2.72
	TOTAL				274.30 X
	Add GST (multiplying factor 0.1405) on "X"				38.54
	TOTAL				312.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				46.93
	Total				359.76 Z
	Add Cess @ 1% on "Z"				3.60
	Cost of each				363.36
	Say				363.35
17.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :				
17.41.1	100x100x100x100 mm				
17.41.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1637	S.C.I. double equal junctions 100x100x 100x100 mm dia with access door.	each	1	715.00	715.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78
	TOTAL				759.78 W
	Add 1 % Water charges on "W"				7.60
	TOTAL				767.38 X
	Add GST (multiplying factor 0.1405) on "X"				107.82
	TOTAL				875.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				131.28
	Total				1006.47 Z
	Add Cess @ 1% on "Z"				10.06
	Cost of each				1016.54
	Say				1016.55
17.41.1.2	Sand cast iron S&S as per IS - 3989				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	1	615.00	615.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.39	2.00	26.78
	TOTAL				659.78 W
	Add 1 % Water charges on "W"				6.60
	TOTAL				666.38 X
	Add GST (multiplying factor 0.1405) on "X"				93.63
	TOTAL				760.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				114.00
	Total				874.00 Z
	Add Cess @ 1% on "Z"				8.74
	Cost of each				882.74
	Say				882.75
17.41.2	75x75x75x75 mm				
17.41.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1636	S.C.I. double equal junctions 75x75x75x 75 mm dia with access door.	each	1	500.00	500.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				537.58 W
	Add 1 % Water charges on "W"				5.38
	TOTAL				542.96 X
	Add GST (multiplying factor 0.1405) on "X"				76.29
	TOTAL				619.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				92.89
	Total				712.13 Z
	Add Cess @ 1% on "Z"				7.12
	Cost of each				719.25
	Say				719.25
17.41.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm.	each	1	480.00	480.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				517.58 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				5.18
	TOTAL				522.76 X
	Add GST (multiplying factor 0.1405) on "X"				73.45
	TOTAL				596.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				89.43
	Total				685.63 Z
	Add Cess @ 1% on "Z"				6.86
	Cost of each				692.49
	Say				692.50
17.42	Providing and fixing double equal plain junction of required degree.				
17.42.1	100x100x100x100 mm				
17.42.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	1	590.00	590.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				617.04 W
	Add 1 % Water charges on "W"				6.17
	TOTAL				623.21 X
	Add GST (multiplying factor 0.1405) on "X"				87.56
	TOTAL				710.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				106.62
	Total				817.39 Z
	Add Cess @ 1% on "Z"				8.17
	Cost of each				825.56
	Say				825.55
17.42.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	1	620.00	620.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				647.04 W
	Add 1 % Water charges on "W"				6.47
	TOTAL				653.51 X
	Add GST (multiplying factor 0.1405) on "X"				91.82
	TOTAL				745.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				111.80
	Total				857.13 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				8.57
	Cost of each				865.70
	Say				865.70
17.42.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7625	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia	each	1	510.00	510.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				537.04 W
	Add 1 % Water charges on "W"				5.37
	TOTAL				542.41 X
	Add GST (multiplying factor 0.1405) on "X"				76.21
	TOTAL				618.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				92.79
	Total				711.41 Z
	Add Cess @ 1% on "Z"				7.11
	Cost of each				718.53
	Say				718.55
17.42.2	75x75x75x75 mm				
17.42.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	1	382.00	382.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				403.58 W
	Add 1 % Water charges on "W"				4.04
	TOTAL				407.62 X
	Add GST (multiplying factor 0.1405) on "X"				57.27
	TOTAL				464.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.73
	Total				534.62 Z
	Add Cess @ 1% on "Z"				5.35
	Cost of each				539.96
	Say				539.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.42.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	1	462.00	462.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				483.58 W
	Add 1 % Water charges on "W"				4.84
	TOTAL				488.42 X
	Add GST (multiplying factor 0.1405) on "X"				68.62
	TOTAL				557.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				83.56
	Total				640.59 Z
	Add Cess @ 1% on "Z"				6.41
	Cost of each				647.00
	Say				647.00
17.42.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7626	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia	each	1	275.00	275.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				296.58 W
	Add 1 % Water charges on "W"				2.97
	TOTAL				299.55 X
	Add GST (multiplying factor 0.1405) on "X"				42.09
	TOTAL				341.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.24
	Total				392.88 Z
	Add Cess @ 1% on "Z"				3.93
	Cost of each				396.81
	Say				396.80
17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
17.43.1	100x100x100 mm				
17.43.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1631	S.C.I. single equal junctions 100x100x 100 mm dia with access door.	each	1	405.00	405.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				450.04 W
	Add 1 % Water charges on "W"				4.50
	TOTAL				454.54 X
	Add GST (multiplying factor 0.1405) on "X"				63.86
	TOTAL				518.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				77.76
	Total				596.16 Z
	Add Cess @ 1% on "Z"				5.96
	Cost of each				602.13
	Say				602.15

17.43.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3644	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	1	495.00	495.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				540.04 W
	Add 1 % Water charges on "W"				5.40
	TOTAL				545.44 X
	Add GST (multiplying factor 0.1405) on "X"				76.63
	TOTAL				622.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				93.31
	Total				715.39 Z
	Add Cess @ 1% on "Z"				7.15
	Cost of each				722.54
	Say				722.55

17.43.2 75x75x75 mm

17.43.2.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door.	each	1	320.00	320.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				357.58 W
	Add 1 % Water charges on "W"				3.58
	TOTAL				361.16 X
	Add GST (multiplying factor 0.1405) on "X"				50.74
	TOTAL				411.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.78
	Total				473.68 Z
	Add Cess @ 1% on "Z"				4.74
	Cost of each				478.42
	Say				478.40

17.43.2.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	1	373.00	373.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				410.58 W
	Add 1 % Water charges on "W"				4.11
	TOTAL				414.69 X
	Add GST (multiplying factor 0.1405) on "X"				58.26
	TOTAL				472.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.94
	Total				543.89 Z
	Add Cess @ 1% on "Z"				5.44
	Cost of each				549.33
	Say				549.35

17.44 Providing and fixing single equal plain junction of required degree :

17.44.1 100x100x100 mm

17.44.1.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	1	360.00	360.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				387.04 W
	Add 1 % Water charges on "W"				3.87
	TOTAL				390.91 X
	Add GST (multiplying factor 0.1405) on "X"				54.92
	TOTAL				445.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.87
	Total				512.71 Z
	Add Cess @ 1% on "Z"				5.13
	Cost of each				517.84
	Say				517.85

17.44.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	1	472.00	472.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				499.04 W
	Add 1 % Water charges on "W"				4.99
	TOTAL				504.03 X
	Add GST (multiplying factor 0.1405) on "X"				70.82
	TOTAL				574.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				86.23
	Total				661.07 Z
	Add Cess @ 1% on "Z"				6.61
	Cost of each				667.68
	Say				667.70

17.44.1.3 Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905

Detail of cost for one no.

MATERIAL

7627	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 100x100x100 mm dia	each	1	400.00	400.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				427.04 W
	Add 1 % Water charges on "W"				4.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				431.31	X
	Add GST (multiplying factor 0.1405) on "X"				60.60	
	TOTAL				491.91	Y
	Add 15 % Contractor's profit and overheads on "Y"				73.79	
	Total				565.70	Z
	Add Cess @ 1% on "Z"				5.66	
	Cost of each				571.35	
	Say				571.35	
17.44.2	75x75x75 mm					
17.44.2.1	Sand cast iron S&S as per IS - 1729					
	Details of cost for one no.					
	MATERIAL					
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	1	278.00	278.00	
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58	
	TOTAL				299.58	W
	Add 1 % Water charges on "W"				3.00	
	TOTAL				302.58	X
	Add GST (multiplying factor 0.1405) on "X"				42.51	
	TOTAL				345.09	Y
	Add 15 % Contractor's profit and overheads on "Y"				51.76	
	Total				396.85	Z
	Add Cess @ 1% on "Z"				3.97	
	Cost of each				400.82	
	Say				400.80	
17.44.2.2	Sand cast iron S&S as per IS - 3989					
	Details of cost for one no.					
	MATERIAL					
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	1	330.00	330.00	
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58	
	TOTAL				351.58	W
	Add 1 % Water charges on "W"				3.52	
	TOTAL				355.10	X
	Add GST (multiplying factor 0.1405) on "X"				49.89	
	TOTAL				404.99	Y
	Add 15 % Contractor's profit and overheads on "Y"				60.75	
	Total				465.73	Z
	Add Cess @ 1% on "Z"				4.66	
	Cost of each				470.39	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				470.40
17.44.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7628	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 75x75x75 mm dia	each	1	215.00	215.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				236.58 W
	Add 1 % Water charges on "W"				2.37
	TOTAL				238.95 X
	Add GST (multiplying factor 0.1405) on "X"				33.57
	TOTAL				272.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.88
	Total				313.40 Z
	Add Cess @ 1% on "Z"				3.13
	Cost of each				316.53
	Say				316.55
17.45	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:				
17.45.1	100x100x75x75 mm				
17.45.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	1	700.00	700.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				745.04 W
	Add 1 % Water charges on "W"				7.45
	TOTAL				752.49 X
	Add GST (multiplying factor 0.1405) on "X"				105.72
	TOTAL				858.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				128.73
	Total				986.95 Z
	Add Cess @ 1% on "Z"				9.87
	Cost of each				996.82
	Say				996.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.45.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	1	850.00	850.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				895.04 W
	Add 1 % Water charges on "W"				8.95
	TOTAL				903.99 X
	Add GST (multiplying factor 0.1405) on "X"				127.01
	TOTAL				1031.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				154.65
	Total				1185.65 Z
	Add Cess @ 1% on "Z"				11.86
	Cost of each				1197.51
	Say				1197.50
17.46	Providing and fixing double unequal plain junction of required degree :				
17.46.1	100x100x75x75 mm				
17.46.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1659	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	1	615.00	615.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				642.04 W
	Add 1 % Water charges on "W"				6.42
	TOTAL				648.46 X
	Add GST (multiplying factor 0.1405) on "X"				91.11
	TOTAL				739.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.94
	Total				850.50 Z
	Add Cess @ 1% on "Z"				8.51
	Cost of each				859.01
	Say				859.00
17.46.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	1.00	800.00	800.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				827.04 W
	Add 1 % Water charges on "W"				8.27
	TOTAL				835.31 X
	Add GST (multiplying factor 0.1405) on "X"				117.36
	TOTAL				952.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				142.90
	Total				1095.57 Z
	Add Cess @ 1% on "Z"				10.96
	Cost of each				1106.53
	Say				1106.55

17.46.1.3 Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905

Detail of cost for one no.

MATERIAL

7629	Hubless centrifugally cast (spun) iron double unequal plain junction as per IS 15905 - 100x100x75x75 mm dia	each	1.00	400.00	400.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				427.04 W
	Add 1 % Water charges on "W"				4.27
	TOTAL				431.31 X
	Add GST (multiplying factor 0.1405) on "X"				60.60
	TOTAL				491.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				73.79
	Total				565.70 Z
	Add Cess @ 1% on "Z"				5.66
	Cost of each				571.35
	Say				571.35

17.47 Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :

17.47.1 100x100x75 mm

17.47.1.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	1.00	550.00	550.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1.00	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				595.04 W
	Add 1 % Water charges on "W"				5.95
	TOTAL				600.99 X
	Add GST (multiplying factor 0.1405) on "X"				84.44
	TOTAL				685.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				102.81
	Total				788.24 Z
	Add Cess @ 1% on "Z"				7.88
	Cost of each				796.13
	Say				796.15

17.47.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	1.00	640.00	640.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1.00	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				685.04 W
	Add 1 % Water charges on "W"				6.85
	TOTAL				691.89 X
	Add GST (multiplying factor 0.1405) on "X"				97.21
	TOTAL				789.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.37
	Total				907.47 Z
	Add Cess @ 1% on "Z"				9.07
	Cost of each				916.54
	Say				916.55

17.48 Providing and fixing single unequal plain junction of required degree :

17.48.1 100x100x75 mm

17.48.1.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

1653	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	1.00	494.00	494.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				521.04 W
	Add 1 % Water charges on "W"				5.21
	TOTAL				526.25 X
	Add GST (multiplying factor 0.1405) on "X"				73.94
	TOTAL				600.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				90.03
	Total				690.22 Z
	Add Cess @ 1% on "Z"				6.90
	Cost of each				697.12
	Say				697.10

17.48.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	1.00	570.00	570.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				597.04 W
	Add 1 % Water charges on "W"				5.97
	TOTAL				603.01 X
	Add GST (multiplying factor 0.1405) on "X"				84.72
	TOTAL				687.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				103.16
	Total				790.89 Z
	Add Cess @ 1% on "Z"				7.91
	Cost of each				798.80
	Say				798.80

17.48.1.3 Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905

Detail of cost for one no.

MATERIAL

7630	Hubless centrifugally cast (spun) iron single unequal plain junction as per IS 15905 100x100x75 mm dia	each	1.00	375.00	375.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				402.04 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				4.02
	TOTAL				406.06 X
	Add GST (multiplying factor 0.1405) on "X"				57.05
	TOTAL				463.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				69.47
	Total				532.58 Z
	Add Cess @ 1% on "Z"				5.33
	Cost of each				537.90
	Say				537.90
17.49	Providing and fixing double equal plain invert branch of required degree:				
17.49.1	100x100x100x100 mm				
17.49.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	1.00	550.00	550.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				577.04 W
	Add 1 % Water charges on "W"				5.77
	TOTAL				582.81 X
	Add GST (multiplying factor 0.1405) on "X"				81.88
	TOTAL				664.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.70
	Total				764.40 Z
	Add Cess @ 1% on "Z"				7.64
	Cost of each				772.04
	Say				772.05
17.49.1.2	Sand cast iron S&S as per IS 3989				
	Details of cost for one no.				
	MATERIAL				
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x 100 mm dia	each	1.00	530.00	530.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				557.04 W
	Add 1 % Water charges on "W"				5.57
	TOTAL				562.61 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				79.05
	TOTAL				641.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				96.25
	Total				737.91 Z
	Add Cess @ 1% on "Z"				7.38
	Cost of each				745.28
	Say				745.30
17.49.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Details of cost for one no.				
	MATERIAL				
7631	Hubless centrifugally cast (spun) iron double equal plain invert branch as per IS 15905 - 100x100x100x100 mm dia	each	1.00	625.00	625.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				652.04 W
	Add 1 % Water charges on "W"				6.52
	TOTAL				658.56 X
	Add GST (multiplying factor 0.1405) on "X"				92.53
	TOTAL				751.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.66
	Total				863.75 Z
	Add Cess @ 1% on "Z"				8.64
	Cost of each				872.39
	Say				872.40

17.49.2 75x75x75x75 mm

17.49.2.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	1.00	410.00	410.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				431.58 W
	Add 1 % Water charges on "W"				4.32
	TOTAL				435.90 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				61.24
	TOTAL				497.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.57
	Total				571.71 Z
	Add Cess @ 1% on "Z"				5.72
	Cost of each				577.43
	Say				577.45

17.49.2.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x75 mm dia	each	1.00	425.00	425.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				446.58 W
	Add 1 % Water charges on "W"				4.47
	TOTAL				451.05 X
	Add GST (multiplying factor 0.1405) on "X"				63.37
	TOTAL				514.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				77.16
	Total				591.58 Z
	Add Cess @ 1% on "Z"				5.92
	Cost of each				597.50
	Say				597.50

17.50 Providing and fixing single equal plain invert branch of required degree :

17.50.1 100x100x100 mm

17.50.1.1 Sand cast iron S&S as per IS- 1729

Details of cost for one no.

MATERIAL

1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	1.00	410.00	410.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				437.04 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.41 X
	Add GST (multiplying factor 0.1405) on "X"				62.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				503.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.94 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of each				584.73
	Say				584.75

17.50.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3681	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	1.00	425.00	425.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				452.04 W
	Add 1 % Water charges on "W"				4.52
	TOTAL				456.56 X
	Add GST (multiplying factor 0.1405) on "X"				64.15
	TOTAL				520.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.11
	Total				598.81 Z
	Add Cess @ 1% on "Z"				5.99
	Cost of each				604.80
	Say				604.80

17.50.1.3 Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905

Detail of cost for one no.

MATERIAL

7632	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 100x100x100 mm dia	each	1.00	390.00	390.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				417.04 W
	Add 1 % Water charges on "W"				4.17
	TOTAL				421.21 X
	Add GST (multiplying factor 0.1405) on "X"				59.18
	TOTAL				480.39 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				72.06
	Total				552.45 Z
	Add Cess @ 1% on "Z"				5.52
	Cost of each				557.97
	Say				557.95
17.50.2	75x75x75 mm				
17.50.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	1.00	320.00	320.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				341.58 W
	Add 1 % Water charges on "W"				3.42
	TOTAL				345.00 X
	Add GST (multiplying factor 0.1405) on "X"				48.47
	TOTAL				393.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.02
	Total				452.49 Z
	Add Cess @ 1% on "Z"				4.52
	Cost of each				457.01
	Say				457.00
17.50.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3682	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	1.00	323.00	323.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				344.58 W
	Add 1 % Water charges on "W"				3.45
	TOTAL				348.03 X
	Add GST (multiplying factor 0.1405) on "X"				48.90
	TOTAL				396.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.54
	Total				456.46 Z
	Add Cess @ 1% on "Z"				4.56
	Cost of each				461.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				461.05
17.50.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7633	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 75x75x75 mm dia	each	1.00	260.00	260.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				281.58 W
	Add 1 % Water charges on "W"				2.82
	TOTAL				284.40 X
	Add GST (multiplying factor 0.1405) on "X"				39.96
	TOTAL				324.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.65
	Total				373.01 Z
	Add Cess @ 1% on "Z"				3.73
	Cost of each				376.74
	Say				376.75
17.51	Providing and fixing double unequal invert branch of required degree :				
17.51.1	100x100x75x75 mm				
17.51.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1677	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	1.00	570.00	570.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				597.04 W
	Add 1 % Water charges on "W"				5.97
	TOTAL				603.01 X
	Add GST (multiplying factor 0.1405) on "X"				84.72
	TOTAL				687.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				103.16
	Total				790.89 Z
	Add Cess @ 1% on "Z"				7.91
	Cost of each				798.80
	Say				798.80
17.51.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3695	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	1.00	725.00	725.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				752.04 W
	Add 1 % Water charges on "W"				7.52
	TOTAL				759.56 X
	Add GST (multiplying factor 0.1405) on "X"				106.72
	TOTAL				866.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				129.94
	Total				996.22 Z
	Add Cess @ 1% on "Z"				9.96
	Cost of each				1006.18
	Say				1006.20

17.52 Providing and fixing single unequal plain invert branch of required degree :

17.52.1 100x100x75 mm

17.52.1.1 Sand cast iron S&S as per IS - 1729

Details of cost for one no.

MATERIAL

1674	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	1.00	495.00	495.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				522.04 W
	Add 1 % Water charges on "W"				5.22
	TOTAL				527.26 X
	Add GST (multiplying factor 0.1405) on "X"				74.08
	TOTAL				601.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				90.20
	Total				691.54 Z
	Add Cess @ 1% on "Z"				6.92
	Cost of each				698.46
	Say				698.45

17.52.1.2 Sand cast iron S&S as per IS - 3989

Details of cost for one no.

MATERIAL

3690	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	1.00	545.00	545.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				572.04 W
	Add 1 % Water charges on "W"				5.72
	TOTAL				577.76 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				81.18
	TOTAL				658.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				98.84
	Total				757.78 Z
	Add Cess @ 1% on "Z"				7.58
	Cost of each				765.35
	Say				765.35

17.52.1.3 Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905

Detail of cost for one no.

MATERIAL

7634	Hubless centrifugally cast (spun) iron single unequal plain invert branch 45 degree as per IS 15905 - 100x100x75 mm dia	each	1.00	430.00	430.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				457.04 W
	Add 1 % Water charges on "W"				4.57
	TOTAL				461.61 X
	Add GST (multiplying factor 0.1405) on "X"				64.86
	TOTAL				526.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.97
	Total				605.44 Z
	Add Cess @ 1% on "Z"				6.05
	Cost of each				611.49
	Say				611.50

17.53 Providing and fixing sand cast iron S&S off sets as per IS: 1729

17.53.1 76 mm off sets

17.53.1.1 With 75 mm dia pipe

Details of cost for one no.

MATERIAL

3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	1.00	218.00	218.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				239.58 W
	Add 1 % Water charges on "W"				2.40
	TOTAL				241.98 X
	Add GST (multiplying factor 0.1405) on "X"				34.00
	TOTAL				275.97 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				41.40
	Total				317.37 Z
	Add Cess @ 1% on "Z"				3.17
	Cost of each				320.54
	Say				320.55
17.53.1.2	With 100 mm dia pipe				
	Details of cost for one no.				
	MATERIAL				
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	1.00	363.00	363.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				384.58 W
	Add 1 % Water charges on "W"				3.85
	TOTAL				388.43 X
	Add GST (multiplying factor 0.1405) on "X"				54.57
	TOTAL				443.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.45
	Total				509.45 Z
	Add Cess @ 1% on "Z"				5.09
	Cost of each				514.54
	Say				514.55
17.53.2	114 mm off sets				
17.53.2.1	With 75 mm dia pipe				
	Details of cost for one no.				
	MATERIAL				
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	1.00	300.00	300.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				327.04 W
	Add 1 % Water charges on "W"				3.27
	TOTAL				330.31 X
	Add GST (multiplying factor 0.1405) on "X"				46.41
	TOTAL				376.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.51
	Total				433.23 Z
	Add Cess @ 1% on "Z"				4.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				437.56
	Say				437.55
17.53.2.2	With 100 mm dia pipe				
	Details of cost for one no.				
	MATERIAL				
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	1.00	383.00	383.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				410.04 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.14 X
	Add GST (multiplying factor 0.1405) on "X"				58.19
	TOTAL				472.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.85
	Total				543.18 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of each				548.61
	Say				548.60
17.53.3	152 mm off sets				
17.53.3.1	With 75 mm dia pipe				
	Details of cost for one no.				
	MATERIAL				
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	1.00	358.00	358.00
9988	Carriage of materials and fixing charges	L.S.	17.94	2.00	35.88
	TOTAL				393.88 W
	Add 1 % Water charges on "W"				3.94
	TOTAL				397.82 X
	Add GST (multiplying factor 0.1405) on "X"				55.89
	TOTAL				453.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.06
	Total				521.77 Z
	Add Cess @ 1% on "Z"				5.22
	Cost of each				526.99
	Say				527.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.53.3.2	With 100 mm dia pipe				
	Details of cost for one no.				
	MATERIAL				
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	1.00	455.00	455.00
9988	Carriage of materials and fixing charges	L.S.	17.94	2.00	35.88
	TOTAL				490.88 W
	Add 1 % Water charges on "W"				4.91
	TOTAL				495.79 X
	Add GST (multiplying factor 0.1405) on "X"				69.66
	TOTAL				565.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				84.82
	Total				650.26 Z
	Add Cess @ 1% on "Z"				6.50
	Cost of each				656.77
	Say				656.75
17.53A	Providing and fixing Hubless centrifugally cast iron offsets epoxy coated inside & outside as per IS:15905				
17.53A.1	65 mm offsets				
17.53A.1.1	With 100 mm dia pipe				
	Detail of cost for one no.				
	MATERIAL				
7635	Hubless centrifugally cast (spun) iron 65 mm offset with 100 mm dia pipe as per IS 15905	each	1.00	360.00	360.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				381.58 W
	Add 1 % Water charges on "W"				3.82
	TOTAL				385.40 X
	Add GST (multiplying factor 0.1405) on "X"				54.15
	TOTAL				439.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.93
	Total				505.48 Z
	Add Cess @ 1% on "Z"				5.05
	Cost of each				510.53
	Say				510.55
17.53A.1.2	With 75 mm dia pipe				
	Detail of cost for one no.				
	MATERIAL				
7636	Hubless centrifugally cast (spun) iron 65 mm offset with 75 mm dia pipe as per IS 15905	each	1.00	295.00	295.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				316.58 W
	Add 1 % Water charges on "W"				3.17
	TOTAL				319.75 X
	Add GST (multiplying factor 0.1405) on "X"				44.92
	TOTAL				364.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.70
	Total				419.37 Z
	Add Cess @ 1% on "Z"				4.19
	Cost of each				423.56
	Say				423.55

17.54 Providing and fixing sand cast iron S&S off sets as per IS: 3989 :

17.54.1 75 mm off sets

17.54.1.1 With 75 mm dia pipe

Details of cost for one no.

MATERIAL

3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	1.00	225.00	225.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				246.58 W
	Add 1 % Water charges on "W"				2.47
	TOTAL				249.05 X
	Add GST (multiplying factor 0.1405) on "X"				34.99
	TOTAL				284.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.61
	Total				326.64 Z
	Add Cess @ 1% on "Z"				3.27
	Cost of each				329.91
	Say				329.90

17.54.2 150 mm off sets

17.54.2.1 With 75 mm dia pipe

Details of cost for one no.

MATERIAL

3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	1.00	285.00	285.00
9988	Carriage of materials and fixing charges	L.S.	16.12	2.00	32.24
	TOTAL				317.24 W
	Add 1 % Water charges on "W"				3.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				320.41	X
	Add GST (multiplying factor 0.1405) on "X"				45.02	
	TOTAL				365.43	Y
	Add 15 % Contractor's profit and overheads on "Y"				54.81	
	Total				420.24	Z
	Add Cess @ 1% on "Z"				4.20	
	Cost of each				424.45	
	Say				424.45	
17.54.2.2	With 100 mm dia pipe					
	Details of cost for one no.					
	MATERIAL					
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	1.00	390.00	390.00	
9988	Carriage of materials and fixing charges	L.S.	16.12	2.00	32.24	
	TOTAL				422.24	W
	Add 1 % Water charges on "W"				4.22	
	TOTAL				426.46	X
	Add GST (multiplying factor 0.1405) on "X"				59.92	
	TOTAL				486.38	Y
	Add 15 % Contractor's profit and overheads on "Y"				72.96	
	Total				559.34	Z
	Add Cess @ 1% on "Z"				5.59	
	Cost of each				564.93	
	Say				564.95	
17.54A	Providing and fixing Hubless centrifugally cast iron offsets epoxy coated inside & outside as per IS:15905					
17.54A.1	130 mm offsets					
17.54A.1.1	With 100 mm dia					
	Detail of cost for one no.					
	MATERIAL					
7637	Hubless centrifugally cast (spun) iron 130 mm offset with 100 mm dia pipe as per IS 15905	each	1.00	440.00	440.00	
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04	
	TOTAL				467.04	W
	Add 1 % Water charges on "W"				4.67	
	TOTAL				471.71	X
	Add GST (multiplying factor 0.1405) on "X"				66.28	
	TOTAL				537.99	Y
	Add 15 % Contractor's profit and overheads on "Y"				80.70	
	Total				618.68	Z
	Add Cess @ 1% on "Z"				6.19	
	Cost of each				624.87	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				624.85
17.54A.1.2	With 75 mm dia				
	Detail of cost for one no.				
	MATERIAL				
7638	Hubless centrifugally cast (spun) iron 130 mm offset with 75 mm dia pipe as per IS 15905	each	1.00	310.00	310.00
9999	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				331.58 W
	Add 1 % Water charges on "W"				3.32
	TOTAL				334.90 X
	Add GST (multiplying factor 0.1405) on "X"				47.05
	TOTAL				381.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.29
	Total				439.24 Z
	Add Cess @ 1% on "Z"				4.39
	Cost of each				443.63
	Say				443.65
17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
17.55.1	100 mm				
17.55.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1683	S.C.I. door pieces 100 mm dia	each	1.00	475.00	475.00
1374	Rubber insertions for 100 mm dia pipe joints	each	1.00	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				520.04 W
	Add 1 % Water charges on "W"				5.20
	TOTAL				525.24 X
	Add GST (multiplying factor 0.1405) on "X"				73.80
	TOTAL				599.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				89.86
	Total				688.89 Z
	Add Cess @ 1% on "Z"				6.89
	Cost of each				695.78
	Say				695.80
17.55.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3728	S.C.I. S&S door pieces 100 mm dia	each	1.00	400.00	400.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1374	Rubber insertions for 100 mm dia pipe joints	each	1.00	18.00	18.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				445.04 W
	Add 1 % Water charges on "W"				4.45
	TOTAL				449.49 X
	Add GST (multiplying factor 0.1405) on "X"				63.15
	TOTAL				512.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.90
	Total				589.54 Z
	Add Cess @ 1% on "Z"				5.90
	Cost of each				595.44
	Say				595.45
17.55.2	75 mm				
17.55.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1682	S.C.I. door pieces 75 mm dia	each	1.00	283.00	283.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1.00	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				320.58 W
	Add 1 % Water charges on "W"				3.21
	TOTAL				323.79 X
	Add GST (multiplying factor 0.1405) on "X"				45.49
	TOTAL				369.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.39
	Total				424.67 Z
	Add Cess @ 1% on "Z"				4.25
	Cost of each				428.92
	Say				428.90
17.55.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3729	S.C.I. S&S door pieces 75 mm dia	each	1.00	295.00	295.00
1373	Rubber insertions for 80 mm dia pipe joints	each	1.00	16.00	16.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				332.58 W
	Add 1 % Water charges on "W"				3.33
	TOTAL				335.91 X
	Add GST (multiplying factor 0.1405) on "X"				47.19
	TOTAL				383.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				440.57 Z
	Add Cess @ 1% on "Z"				4.41
	Cost of each				444.97
	Say				444.95
17.56	Providing and fixing terminal guard :				
17.56.1	100 mm				
17.56.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1640	Slotted cowl (terminal guard) 100 mm dia	each	1.00	239.00	239.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				266.04 W
	Add 1 % Water charges on "W"				2.66
	TOTAL				268.70 X
	Add GST (multiplying factor 0.1405) on "X"				37.75
	TOTAL				306.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.97
	Total				352.42 Z
	Add Cess @ 1% on "Z"				3.52
	Cost of each				355.94
	Say				355.95
17.56.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	1.00	264.00	264.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				291.04 W
	Add 1 % Water charges on "W"				2.91
	TOTAL				293.95 X
	Add GST (multiplying factor 0.1405) on "X"				41.30
	TOTAL				335.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.29
	Total				385.54 Z
	Add Cess @ 1% on "Z"				3.86
	Cost of each				389.39
	Say				389.40
17.56.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7641	Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - 100 mm dia	each	1.00	270.00	270.00
	as per IS 15905				
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				297.04 W
	Add 1 % Water charges on "W"				2.97
	TOTAL				300.01 X
	Add GST (multiplying factor 0.1405) on "X"				42.15
	TOTAL				342.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.32
	Total				393.49 Z
	Add Cess @ 1% on "Z"				3.93
	Cost of each				397.42
	Say				397.40
17.56.2	75 mm				
17.56.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1639	Slotted cowl (terminal guard)75 mm dia	each	1.00	191.00	191.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				212.58 W
	Add 1 % Water charges on "W"				2.13
	TOTAL				214.71 X
	Add GST (multiplying factor 0.1405) on "X"				30.17
	TOTAL				244.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.73
	Total				281.60 Z
	Add Cess @ 1% on "Z"				2.82
	Cost of each				284.42
	Say				284.40
17.56.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	1.00	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				231.58 W
	Add 1 % Water charges on "W"				2.32
	TOTAL				233.90 X
	Add GST (multiplying factor 0.1405) on "X"				32.86
	TOTAL				266.76 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				40.01
	Total				306.77 Z
	Add Cess @ 1% on "Z"				3.07
	Cost of each				309.84
	Say				309.85
17.57	Providing and fixing collar :				
17.57.1	100 mm				
17.57.1.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1686	S.C.I. collar 100 mm dia	each	1.00	246.00	246.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				273.04 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.77 X
	Add GST (multiplying factor 0.1405) on "X"				38.75
	TOTAL				314.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.18
	Total				361.69 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of each				365.31
	Say				365.30
17.57.1.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3738	S.C.I. S&S, collars 100 mm	each	1.00	279.00	279.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				306.04 W
	Add 1 % Water charges on "W"				3.06
	TOTAL				309.10 X
	Add GST (multiplying factor 0.1405) on "X"				43.43
	TOTAL				352.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.88
	Total				405.41 Z
	Add Cess @ 1% on "Z"				4.05
	Cost of each				409.46
	Say				409.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.57.2	75 mm				
17.57.2.1	Sand cast iron S&S as per IS - 1729				
	Details of cost for one no.				
	MATERIAL				
1685	S.C.I. collar 75 mm dia	each	1.00	177.00	177.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				198.58 W
	Add 1 % Water charges on "W"				1.99
	TOTAL				200.57 X
	Add GST (multiplying factor 0.1405) on "X"				28.18
	TOTAL				228.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.31
	Total				263.06 Z
	Add Cess @ 1% on "Z"				2.63
	Cost of each				265.69
	Say				265.70
17.57.2.2	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
3739	S.C.I. S&S, collars 75 mm	each	1.00	170.00	170.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				191.58 W
	Add 1 % Water charges on "W"				1.92
	TOTAL				193.50 X
	Add GST (multiplying factor 0.1405) on "X"				27.19
	TOTAL				220.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.10
	Total				253.78 Z
	Add Cess @ 1% on "Z"				2.54
	Cost of each				256.32
	Say				256.30
17.57A	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe				
17.57A.1	100 mm dia				
17.57A.1.1	SS 304 grade coupling with EPDM rubber gasket				
	Detail of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7644	SS 304 grade shielded coupling with EPDM rubber gasket for 100 mm dia Hubless centrifugally cast (spun) iron	each	1.00	275.00	275.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				302.04 W
	Add 1 % Water charges on "W"				3.02
	TOTAL				305.06 X
	Add GST (multiplying factor 0.1405) on "X"				42.86
	TOTAL				347.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				52.19
	Total				400.11 Z
	Add Cess @ 1% on "Z"				4.00
	Cost of each				404.11
	Say				404.10
17.57A.2	75 mm dia				
17.57A.2.1	SS 304 grade coupling with EPDM rubber gasket				
	Detail of cost for one no.				
	MATERIAL				
7645	SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm dia Hubless centrifugally cast (spun) iron	each	1.00	250.00	250.00
9977	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				271.58 W
	Add 1 % Water charges on "W"				2.72
	TOTAL				274.30 X
	Add GST (multiplying factor 0.1405) on "X"				38.54
	TOTAL				312.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				46.93
	Total				359.76 Z
	Add Cess @ 1% on "Z"				3.60
	Cost of each				363.36
	Say				363.35
17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				
17.58.1	100 mm				
	Details of cost for one joint				
	MATERIAL				
1397	Pig lead	kilogram	0.98	176.00	172.48
1881	Spun yarn	kilogram	0.11	50.00	5.50
9999	Kerosene oil, fuel and other sundries	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	1.43	2.00	2.86
	LABOUR				
0019	Fitter (grade 1)	day	0.06	476.00	28.56

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0020	Assistant Fitter or 2nd class Fitter	day	0.06	374.50	22.47
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				297.41 W
	Add 1 % Water charges on "W"				2.97
	TOTAL				300.38 X
	Add GST (multiplying factor 0.1405) on "X"				42.20
	TOTAL				342.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.39
	Total				393.98 Z
	Add Cess @ 1% on "Z"				3.94
	Cost of each joint				397.92
	Say				397.90
17.58.2	75 mm				
	Details of cost for one joint				
	MATERIAL				
1397	Pig lead	kilogram	0.88	176.00	154.88
1881	Spun yarn	kilogram	0.09	50.00	4.50
9999	Kerosene oil, fuel and other sundries	L.S.	10.79	2.00	21.58
9977	Carriage of materials	L.S.	1.43	2.00	2.86
	LABOUR				
0019	Fitter (grade 1)	day	0.05	476.00	23.80
0020	Assistant Fitter or 2nd class Fitter	day	0.05	374.50	18.73
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				255.22 W
	Add 1 % Water charges on "W"				2.55
	TOTAL				257.77 X
	Add GST (multiplying factor 0.1405) on "X"				36.22
	TOTAL				293.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				44.10
	Total				338.09 Z
	Add Cess @ 1% on "Z"				3.38
	Cost of each				341.47
	Say				341.45
17.58.3	50 mm				
	Details of cost for one joint				
	MATERIAL				
1397	Pig lead	kilogram	0.77	176.00	135.52
1881	Spun yarn	kilogram	0.06	50.00	3.00
9999	Kerosene oil, fuel and other sundries	L.S.	6.76	2.00	13.52
9977	Carriage of materials	L.S.	1.43	2.00	2.86
	LABOUR				
0019	Fitter (grade 1)	day	0.04	476.00	19.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0020	Assistant Fitter or 2nd class Fitter	day	0.05	374.50	18.73
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				208.71 W
	Add 1 % Water charges on "W"				2.09
	TOTAL				210.79 X
	Add GST (multiplying factor 0.1405) on "X"				29.62
	TOTAL				240.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.06
	Total				276.47 Z
	Add Cess @ 1% on "Z"				2.76
	Cost of each				279.24
	Say				279.25
17.59	Providing and fixing M.S. stays and clamps for sand cast iron/ centrifugally cast (spun) iron pipes of diameter :				
17.59.1	100 mm				
	Details of cost for one no.				
	MATERIAL				
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	1.00	67.50	67.50
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				94.54 W
	Add 1 % Water charges on "W"				0.95
	TOTAL				95.49 X
	Add GST (multiplying factor 0.1405) on "X"				13.42
	TOTAL				108.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.34
	Total				125.24 Z
	Add Cess @ 1% on "Z"				1.25
	Cost of each				126.49
	Say				126.50
17.59.2	75 mm				
	Details of cost for one no.				
	MATERIAL				
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	1.00	37.00	37.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				58.58 W
	Add 1 % Water charges on "W"				0.59
	TOTAL				59.17 X
	Add GST (multiplying factor 0.1405) on "X"				8.31
	TOTAL				67.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				77.60 Z
	Add Cess @ 1% on "Z"				0.78
	Cost of each				78.38
	Say				78.40
17.59.3	50 mm				
	Details of cost for one no.				
	MATERIAL				
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	1.00	35.00	35.00
9988	Carriage of materials and fixing charges	L.S.	9.49	2.00	18.98
	TOTAL				53.98 W
	Add 1 % Water charges on "W"				0.54
	TOTAL				54.52 X
	Add GST (multiplying factor 0.1405) on "X"				7.66
	TOTAL				62.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.33
	Total				71.51 Z
	Add Cess @ 1% on "Z"				0.72
	Cost of each				72.22
	Say				72.20
17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
17.60.1	100 mm inlet and 100 mm outlet				
17.60.1.1	Sand cast iron S&S as per IS: 3989				
	Details of cost for one no.				
	MATERIAL				
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	1.00	450.00	450.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				0.00
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				880.92 W
	Add 1 % Water charges on "W"				8.81
	TOTAL				889.72 X
	Add GST (multiplying factor 0.1405) on "X"				125.01
	TOTAL				1014.73 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				152.21
	Total				1166.94 Z
	Add Cess @ 1% on "Z"				11.67
	Cost of each				1178.61
	Say				1178.60
17.60.1.2	Sand Cast Iron S&S as per IS: 1729				
	Details of cost for one no.				
	MATERIAL				
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	1.00	271.00	271.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.5	476.00	238.00
0017	Beldar	day	0.5	320.83	160.42
	TOTAL				701.92 W
	Add 1 % Water charges on "W"				7.02
	TOTAL				708.93 X
	Add GST (multiplying factor 0.1405) on "X"				99.61
	TOTAL				808.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				121.28
	Total				929.82 Z
	Add Cess @ 1% on "Z"				9.30
	Cost of each				939.12
	Say				939.10
17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7642	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 100 mm outlet as per IS 15905	each	1.00	540.00	540.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				567.04 W
	Add 1 % Water charges on "W"				5.67
	TOTAL				572.71 X
	Add GST (multiplying factor 0.1405) on "X"				80.47
	TOTAL				653.18 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				97.98
	Total				751.15 Z
	Add Cess @ 1% on "Z"				7.51
	Cost of each				758.66
	Say				758.65
17.60.2	100 mm inlet and 75 mm outlet				
17.60.2.1	Sand cast iron S&S as per IS - 3989				
	Details of cost for one no.				
	MATERIAL				
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	1.00	500.00	500.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				930.92 W
	Add 1 % Water charges on "W"				9.31
	TOTAL				940.22 X
	Add GST (multiplying factor 0.1405) on "X"				132.10
	TOTAL				1072.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				160.85
	Total				1233.17 Z
	Add Cess @ 1% on "Z"				12.33
	Cost of each				1245.51
	Say				1245.50
17.60.2.2	Sand Cast Iron S&S as per IS- 1729				
	Details of cost for one no.				
	MATERIAL				
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	1.00	218.00	218.00
9999	Cement, sand and grit etc.	L.S.	13.52	2.00	27.04
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.5	476.00	238.00
0017	Beldar	day	0.5	320.83	160.42
	TOTAL				648.92 W
	Add 1 % Water charges on "W"				6.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				655.40 X
	Add GST (multiplying factor 0.1405) on "X"				92.08
	TOTAL				747.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.12
	Total				859.61 Z
	Add Cess @ 1% on "Z"				8.60
	Cost of each				868.21
	Say				868.20
17.60.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905				
	Detail of cost for one no.				
	MATERIAL				
7643	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 mm outlet as per IS 15905	each	1.00	385.00	385.00
9977	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				412.04 W
	Add 1 % Water charges on "W"				4.12
	TOTAL				416.16 X
	Add GST (multiplying factor 0.1405) on "X"				58.47
	TOTAL				474.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.19
	Total				545.83 Z
	Add Cess @ 1% on "Z"				5.46
	Cost of each				551.28
	Say				551.30
17.61	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
17.61.1	100 mm dia				
	Details of cost for one metre				
	MATERIAL				
	Cement concrete 1:3:6 (1 cement :				
	3 coarse sand :6 graded stone aggregate)				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.022	6577.55	144.71 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Plastering in cement mortar 1:4	L.S.	10.4	2.00	20.80
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.14	476.00	66.64
0017	Beldar	day	0.27	320.83	86.62
	TOTAL				327.09 W
	Add 1 % Water charges on "W-A"	182.38			1.82
	TOTAL				328.91 X
	Add GST (multiplying factor 0.1405) on "X-A"	184.21			25.88
	TOTAL				354.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	210.09			31.51
	Total				386.31 Z
	Add Cess @ 1% on "Z-A"	241.60			2.42
	Cost of one metre				388.72
	Say				388.70
17.61.2	75 mm dia				
	Details of cost for one metre				
	MATERIAL				
	Cement concrete 1:3:6 (1 cement :				
	3 coarse sand :6 graded stone aggregate)				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.015	6577.55	98.66 A
9999	Plastering in cement mortar 1:4	L.S.	7.800	2.00	15.60
9977	Carriage of materials	L.S.	3.51	2.00	7.02
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				233.05 W
	Add 1 % Water charges on "W-A"	134.39			1.34
	TOTAL				234.39 X
	Add GST (multiplying factor 0.1405) on "X-A"	135.73			19.07
	TOTAL				253.46 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	154.80			23.22
	Total				276.68 Z
	Add Cess @ 1% on "Z-A"	178.02			1.78
	Cost of one metre				278.46
	Say				278.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.61.3	50 mm dia				
	Details of cost for one metre				
	MATERIAL				
	Cement concrete 1:3:6 (1 cement :				
	3 coarse sand :6 graded stone aggregate)				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.008	6577.55	52.62 A
9999	Plastering in cement mortar 1:4	L.S.	5.20	2.00	10.40
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.07	476.00	33.32
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				146.72 W
	Add 1 % Water charges on "W-A"	94.10			0.94
	TOTAL				147.66 X
	Add GST (multiplying factor 0.1405) on "X-A"	95.04			13.35
	TOTAL				161.01 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	108.39			16.26
	Total				177.27 Z
	Add Cess @ 1% on "Z-A"	124.65			1.25
	Cost of one metre				178.52
	Say				178.50
17.62	Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern, flush pipe, other fittings, etc. complete for new work.				
	Details of cost for one cistern with fittings				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.23	100.00	23.00
4202	Red oxide Zinc chromate primer	litre	0.2	110.00	22.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.4	160.00	64.00
9977	Carriage of materials	L.S.	1.43	2.00	2.86
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0017	Beldar	day	0.5	320.83	160.42
	TOTAL				379.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.79
	TOTAL				383.21 X
	Add GST (multiplying factor 0.1405) on "X"				53.84
	TOTAL				437.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.56
	Total				502.61 Z
	Add Cess @ 1% on "Z"				5.03
	Cost of each				507.64
	Say				507.65
17.63	Re-painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete, including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.				
	Details of cost for one cistern with fittings				
	MATERIAL				
828	Anticorrosive bituminous paint (black)	litre	0.23	100.00	23.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.2	160.00	32.00
9999	Polishing of wooden seat and cleaning of W.C. pan with acid	L.S.	20.67	2.00	41.34
9988	Sundries and carriage of materials	L.S.	7.15	2.00	14.30
	LABOUR				
0031	Painter	day	0.2	374.50	74.90
0017	Beldar	day	0.25	320.83	80.21
	TOTAL				265.75
	Add 1 % Water charges on "W"				2.66
	TOTAL				268.40 X
	Add GST (multiplying factor 0.1405) on "X"				37.71
	TOTAL				306.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.92
	Total				352.03 Z
	Add Cess @ 1% on "Z"				3.52
	Cost of each				355.55
	Say				355.55
17.64	Repainting C.I. cistern with synthetic enamel paint of approved colour, brand and manufacture on the outside surface of cistern, flush pipe, other fittings etc. complete.				
	Details of cost for one cistern with fittings				
	MATERIAL				
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.2	160.00	32.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Sundries and carriage of materials LABOUR	L.S.	3.64	2.00	7.28
0031	Painter	day	0.09	374.50	33.71
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				111.48 W
	Add 1 % Water charges on "W"				1.11
	TOTAL				112.60 X
	Add GST (multiplying factor 0.1405) on "X"				15.82
	TOTAL				128.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.26
	Total				147.68 Z
	Add Cess @ 1% on "Z"				1.48
	Cost of each				149.16
	Say				149.15
17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
17.65.1	100 mm diameter pipe				
	Details of cost for 10 metres				
	MATERIAL				
	Perimeter = 3.14x110 mm =345.71				
	Area 10x0.3457 = 3.46 sqm				
	Priming coat				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing Painting	sqm	3.46	33.30	115.22 A
	two coats with paint of any colour such as chocolatem grev or buff etc.				
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	3.46	82.40	285.09 A
9999	Add for delay	L.S.	17.16	2.00	34.32
	TOTAL				434.63 W
	Add 1 % Water charges on "W-A"	34.32			0.34
	TOTAL				434.97 X
	Add GST (multiplying factor 0.1405) on "X-A"	34.66			4.87
	TOTAL				439.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	39.53			5.93
	Total				445.77 Z
	Add Cess @ 1% on "Z-A"	45.46			0.45
	Cost of 10 metres				446.23
	Cost of 1 metre				44.62
	Say				44.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.65.2	75 mm diameter pipe				
	Details of cost for 10 metres				
	MATERIAL				
	Perimeter = 3.14x82 mm =257.71				
	Area 10x0.2577 =2.577 sqm say 2.60 sq. m for outer surface Priming coat				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing Painting two coats with paint of any colour such as chocolate grey or buff etc.	sqm	2.60	33.30	86.58 A
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	2.60	82.40	214.23 A
9999	Add for delay	L.S.	15.21	2.00	30.42
	TOTAL				331.23 W
	Add 1 % Water charges on "W-A"		30.42		0.30
	TOTAL				331.54 X
	Add GST (multiplying factor 0.1405) on "X-A"		30.72		4.32
	TOTAL				335.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		35.04		5.26
	Total				341.11 Z
	Add Cess @ 1% on "Z-A"		40.30		0.40
	Cost of 10 metres				341.51
	Cost of 1 metre				34.15
	Say				34.15
17.66	Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with one coat of synthetic enamel paint of any colour such as chocolate. grey or buff etc :				
17.66.1	100 mm diameter pipe				
	Details of cost for 10 metres				
	Painting one coat with paint of any colour such as chocolate, grey or buff etc.				
13.99.1	(Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	3.46	53.85	186.30 A
9999	Add for delay	L.S.	12.22	2.00	24.44
	TOTAL				210.74 W
	Add 1 % Water charges on "W-A"		24.44		0.24
	TOTAL				210.99 X
	Add GST (multiplying factor 0.1405) on "X-A"		24.68		3.47
	TOTAL				214.46 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		28.15		4.22
	Total				218.68 Z
	Add Cess @ 1% on "Z-A"		32.38		0.32
	Cost of 10 metres				219.00
	Cost of 1 metre				21.90
	Say				21.90
17.66.2	75 mm diameter pipe				
	Details of cost for 10 metres				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.99.1	Painting one coat with paint of any colour such as chocolate, grey or buff etc. (Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	2.58	53.85	138.92 A
9999	Add for delay	L.S.	9.49	2.00	18.98
	TOTAL				157.90 W
	Add 1 % Water charges on "W-A"	18.98			0.19
	TOTAL				158.09 X
	Add GST (multiplying factor 0.1405) on "X-A"	19.17			2.69
	TOTAL				160.78 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	21.86			3.28
	Total				164.06 Z
	Add Cess @ 1% on "Z-A"	25.14			0.25
	Cost of 10 metres				164.31
	Cost of 1 metre				16.43
	Say				16.45

17.67 Repainting bath tub of size 1700x730x430 mm with enamel paint.

Details of cost for one tub

MATERIAL

830	Enamel paint	litre	0.90	165.00	148.50
9999	Sundries	L.S.	6.76	2.00	13.52
	LABOUR				
0031	Painter	day	0.25	374.50	93.63
0018	Coolie	day	0.25	320.83	80.21
	TOTAL				335.85 W
	Add 1 % Water charges on "W"				3.36
	TOTAL				339.21 X
	Add GST (multiplying factor 0.1405) on "X"				47.66
	TOTAL				386.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.03
	Total				444.90 Z
	Add Cess @ 1% on "Z"				4.45
	Cost of each				449.35
	Say				449.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.68	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:				
17.68.1	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.				
	Details of cost for one no.				
	MATERIAL				
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1.00	400.00	400.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as sequatting pan or European type water closet as per manufacturer's specifications	each	1.00	2500.00	2500.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1.00	1240.00	1240.00
9999	20 mm G.I.over flow pipe and specials for over flow pipe	L.S.	276.25	2.00	552.50
1350	Mosquito proof coupling of approved design	each	1.00	30.00	30.00
9999	Plugs, screws etc.	L.S.	59.15	2.00	118.30
9999	Red lead, white lead and gaskin etc.	L.S.	71.76	2.00	143.52
9999	Cement,sand and grit	L.S.	118.43	2.00	236.86
9977	Carriage of materials	L.S.	118.43	2.00	236.86
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				6730.87 W
	Add 1 % Water charges on "W"				67.31
	TOTAL				6798.18 X
	Add GST (multiplying factor 0.1405) on "X"				955.14
	TOTAL				7753.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				1163.00
	Total				8916.32 Z
	Add Cess @ 1% on "Z"				89.16
	Cost of each				9005.48
	Say				9005.50
17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7491	PTMT Waste Coupling 31/32MM	each	1.00	34.00	34.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				74.56 W
	Add 1 % Water charges on "W"				0.75
	TOTAL				75.31 X
	Add GST (multiplying factor 0.1405) on "X"				10.58
	TOTAL				85.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.88
	Total				98.77 Z
	Add Cess @ 1% on "Z"				0.99
	Cost of each				99.76
	Say				99.75
17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms				
	Details of cost for one no.				
	MATERIAL				
7492	PTMT Waste Coupling 38/40MM	each	1.00	48.00	48.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				88.56 W
	Add 1 % Water charges on "W"				0.89
	TOTAL				89.45 X
	Add GST (multiplying factor 0.1405) on "X"				12.57
	TOTAL				102.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.30
	Total				117.31 Z
	Add Cess @ 1% on "Z"				1.17
	Cost of each				118.49
	Say				118.50
17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms				
	Details of cost for one no.				
	MATERIAL				
7493	PTMT Bottle Trap 31/32MM	each	1.00	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				250.56 W
	Add 1 % Water charges on "W"				2.51
	TOTAL				253.07 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				35.56
	TOTAL				288.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.29
	Total				331.91 Z
	Add Cess @ 1% on "Z"				3.32
	Cost of each				335.23
	Say				335.25
17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms				
	Details of cost for one no.				
	MATERIAL				
7494	PTMT Bottle Trap 38/40MM	each	1.00	220.00	220.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				260.56 W
	Add 1 % Water charges on "W"				2.61
	TOTAL				263.17 X
	Add GST (multiplying factor 0.1405) on "X"				36.97
	TOTAL				300.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				45.02
	Total				345.16 Z
	Add Cess @ 1% on "Z"				3.45
	Cost of each				348.61
	Say				348.60
17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.				
	Details of cost for one no.				
	MATERIAL				
7503	PTMT Liquid Soap Container of 400ml capacity	each	1.00	105.00	105.00
9988	Carriage of materials and fixing charges	L.S.	6.76	2.00	13.52
	TOTAL				118.52 W
	Add 1 % Water charges on "W"				1.19
	TOTAL				119.71 X
	Add GST (multiplying factor 0.1405) on "X"				16.82
	TOTAL				136.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				157.00 Z
	Add Cess @ 1% on "Z"				1.57
	Cost of each				158.57
	Say				158.55
17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.				
	MATERIAL				
7504	PTMT - Towel Ring 215x200x37mm	each	1.00	130.00	130.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				170.56 W
	Add 1 % Water charges on "W"				1.71
	TOTAL				172.27 X
	Add GST (multiplying factor 0.1405) on "X"				24.20
	TOTAL				196.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.47
	Total				225.94 Z
	Add Cess @ 1% on "Z"				2.26
	Cost of each				228.20
	Say				228.20
17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms				
	Details of cost for one no.				
	MATERIAL				
7505	PTMT Towel Rail (450mm) Wooden cleates	each	1.00	135.00	135.00
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	2.00	25.40	50.80 A
588	Chromium plated Brass screws 25 mm	100 Nos	0.06	180.00	10.80
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0015	Carpenter 2nd class	day	0.17	374.50	63.67
0017	Beldar	day	0.17	320.83	54.54
	TOTAL				323.13 W
	Add 1 % Water charges on "W-A"	272.33			2.72
	TOTAL				325.85 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add GST (multiplying factor 0.1405) on "X"	275.05			38.64	
	TOTAL				364.49	Y
	Add 15 % Contractor's profit and overheads on "Y"	313.69			47.05	
	Total				411.55	Z
	Add Cess @ 1% on "Z"	360.75			3.61	
	Cost of each				415.16	
	Say				415.15	
17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.					
	Details of cost for one no.					
	MATERIAL					
7506	PTMT Towel Rail (600mm) Wooden cleates	each	1.00	165.00	165.00	
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	2.00	25.40	50.80	A
588	Chromium plated Brass screws 25 mm	100 Nos	0.06	180.00	10.80	
9977	Carriage of materials	L.S.	4.16	2.00	8.32	
	LABOUR					
0015	Carpenter 2nd class	day	0.17	374.50	63.67	
0017	Beldar	day	0.17	320.83	54.54	
	TOTAL				353.13	W
	Add 1 % Water charges on "W-A"	302.33			3.02	
	TOTAL				356.15	X
	Add GST (multiplying factor 0.1405) on "X"	305.35			42.90	
	TOTAL				399.05	Y
	Add 15 % Contractor's profit and overheads on "Y"	348.25			52.24	
	Total				451.29	Z
	Add Cess @ 1% on "Z"	400.49			4.00	
	Cost of each				455.29	
	Say				455.30	
17.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.					
	Details of cost for one no.					
	MATERIAL					
7507	PTMT Shelf 450x124x36mm Wooden cleates	each	1.00	200.00	200.00	
8.23	Rate as per item no 9.32 of SH : Wood and PVC work	each	2.00	25.40	50.80	A
588	Chromium plated Brass screws 25 mm	100 Nos	0.06	180.00	10.80	
9977	Carriage of materials	L.S.	4.16	2.00	8.32	
	LABOUR					
0015	Carpenter 2nd class	day	0.17	374.50	63.67	
0017	Beldar	day	0.17	320.83	54.54	
	TOTAL				388.13	W
	Add 1 % Water charges on "W-A"	337.33			3.37	
	TOTAL				391.50	X
	Add GST (multiplying factor 0.1405) on "X-A"	340.70			47.87	
	TOTAL				439.37	Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"	388.57			58.29	
	Total				497.65	Z
	Add Cess @ 1% on "Z-A"	446.85			4.47	
	Cost of each				502.12	
	Say				502.10	
17.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.					
	Details of cost for one no.					
	MATERIAL					
7508	PTMT Urinal Spreader 15mm	each	1.00	76.00	76.00	
9988	Carriage of materials and fixing charges	L.S.	6.76	2.00	13.52	
	TOTAL				89.52	W
	Add 1 % Water charges on "W"				0.90	
	TOTAL				90.42	X
	Add GST (multiplying factor 0.1405) on "X"				12.70	
	TOTAL				103.12	Y
	Add 15 % Contractor's profit and overheads on "Y"				15.47	
	Total				118.59	Z
	Add Cess @ 1% on "Z"				1.19	
	Cost of each				119.77	
	Say				119.75	
17.76	Providing and fixing PTMT urinal cock of approved quality and colour.					
17.76.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms					
	Details of cost for 1 no.					
	MATERIAL					
7858	P.T.M.T. Urinal cock 15mm dia	each	1	106.50	106.50	
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12	
	TOTAL				122.62	W
	Add 1 % Water charges on "W"				1.23	
	TOTAL				123.85	X
	Add GST (multiplying factor 0.1405) on "X"				17.40	
	TOTAL				141.25	Y
	Add 15 % Contractor's profit and overheads on "Y"				21.19	
	Total				162.43	Z
	Add Cess @ 1% on "Z"				1.62	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				164.06
	Say				164.05
17.77	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75 mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners, including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30 mm x1.6 mm galvanised M.S. flats of specified shape and of total length 420 mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6 mm, one bolts on each side of the pipe.				
17.77.1	Total bracket length 580 mm of approved shape and design (for single 100 mm dia pipe)				
	Details of cost for 5 nos.				
	MATERIAL				
	M.S. flats 50x5mm 5 x 0.58 = 2.90m @ 1.97 kg/ metre = 5.71 kg.				
	M.S. flats 30x1.6mm 5x0.42 = 2.10m.				
	0.38kg/metre = 0.80kg. Total = 6.51kg.				
	Add wastage 5% = 0.33kg.				
	Total = 6.86 kg.= 0.0686 quintal				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.0686	4600.00	315.56
2205	Carriage of Steel	tonne	0.00686	94.34	0.65
	LABOUR				
0019	Fitter (grade 1)	day	0.033	476.00	15.71
0013	Blacksmith 2nd class	day	0.049	374.50	18.35
0017	Beldar priming coat 5x0.58x0.11 = 0.32	Day	0.065	320.83	20.85
	5x0.42x0.063 = 0.13				
	Total=0.45sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	0.45	38.95	17.53 A
9999	Sundries	L.S.	1.35	2.00	2.70
	P/F expansion hold fasteners 6mm threaded dia 5x4				
	Nos = 20 nos.				
8.8.1.1	"Rate asper item no. 8.8.1.1 of	each	20	27.45	549.07 A
	SH :- Marble work				
	Total				940.42 W
	Add 1 % Water charges on "W-A"	373.82			3.74
	TOTAL				944.16 X
	Add GST (multiplying factor 0.1405) on "X-A"	377.56			53.05
	TOTAL				997.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	430.60			64.59
	Total				1061.80 Z
	Add Cess @ 1% on "Z-A"	495.20			4.95
	Cost of 5 Nos.				1066.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				213.35
	Say				213.35
17.77.2	Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes)				
	Details of cost for 5 nos.				
	MATERIAL				
	M.S. flats 50x5mm 5 x 0.81 = 4.05m @ 1.97 kg/ metre = 7.98 kg.				
	M.S. flats 30x1.6mm 5x2x0.42 = 4.20m.				
	0.38kg/metre = 1.60kg. Total = 9.58kg.				
	Add wastage 5% = 0.48kg.				
	Total = 10.06 kg.				
	M.S.flats 10.06kg. = 0.1006 quintal				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.1006	4600.00	462.76
2205	Carriage of Steel	tonne	0.01006	94.34	0.95
	LABOUR				
0019	Fitter (grade 1)	day	0.048	476.00	22.85
0013	Blacksmith 2nd class	day	0.072	374.50	26.96
0017	Beldar priming coat	day	0.096	320.83	30.80
	5x0.81x0.11 = 0.45				
	5x2x0.42x0.063 = 0.26				
	Total =0.71sqm				
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	0.71	38.95	27.66 A
9999	Sundries	L.S.	1.98	2.00	3.96
	P/F expansion hold fasteners 6mm threaded dia 5x4				
	Nos = 20 nos.				
8.8.1.1	"Rate asper item no. 8.8.1.1 of	each	20	27.45	549.07 A
	SH :- Marble work				
	Total				1125.01 W
	Add 1 % Water charges on "W-A"	548.28			5.48
	TOTAL				1130.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	553.76			77.80
	TOTAL				1208.30 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	631.57			94.74
	Total				1303.03 Z
	Add Cess @ 1% on "Z-A"	726.30			7.26
	Cost of 5 Nos.				1310.30
	Cost of each				262.06
	Say				262.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
17.77.3	Total bracket length 1040 mm of approved shape and design (for three 100 mm dia pipes)				
	Details of cost for 5 nos.				
	MATERIAL				
	M.S. flats 50x5mm 5 x 1.04= 5.20m @ 1.97 kg/ metre = 10.24 kg.				
	M.S. flats 30x1.6mm 5x3x0.42 = 6.30m. 0.38kg/metre = 2.39kg. Total = 12.63kg.				
	Add wastage 5% = 0.63kg.				
	Total = 13.26 kg.				
	M.S.flats 13.26kg. = 0.1326 quintal				
1007	Structurals such as tees,angles channels and R.S. joists	quintal	0.1326	4600.00	609.96
2205	Carriage of Steel	tonne	0.01326	94.34	1.25
	LABOUR				
0019	Fitter (grade 1)	day	0.063	476.00	29.99
0013	Blacksmith 2nd class	day	0.095	374.50	35.58
0017	Beldar priming coat 5x1.04x0.11 = 0.57 5x3x0.42x0.063 = 0.40 Total=0.97sqm	day	0.126	320.83	40.42
13.50.1	Rate as per item no 13.50.1 of SH : Finishing	sqm	0.97	38.95	37.78 A
9999	Sundries	L.S.	2.60	2.00	5.20
	P/F expansion hold fasteners 6mm threaded dia 5x4 Nos = 20 nos.				
8.8.1.1	Rate as per item no. 8.8.1.1 of SH :- Marble work	each	20.00	27.45	549.07 A
	Total				1309.26 W
	Add 1 % Water charges on "W-A"	722.40			7.22
	TOTAL				1316.48 X
	Add GST (multiplying factor 0.1405) on "X-A"	729.63			102.51
	TOTAL				1419.00 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	832.14			124.82
	Total				1543.82 Z
	Add Cess @ 1% on "Z-A"	956.96			9.57
	Cost of 5 Nos.				1553.39
	Cost of each				310.68
	Say				310.70
17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.				
	Details of cost for one pan				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7072	Wall mounted water closet	each	1.00	6000.00	6000.00
7073	Adjustable Vitreous China Cistern with fittings	each	1.00	1900.00	1900.00
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	1.00	400.00	400.00
9977	Carriage of materials	L.S.	9.79	2.00	19.58
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				9592.41 W
	Add 1 % Water charges on "W"				95.92
	TOTAL				9688.33 X
	Add GST (multiplying factor 0.1405) on "X"				1361.21
	TOTAL				11049.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				1657.43
	Total				12706.98 Z
	Add Cess @ 1% on "Z"				127.07
	Cost of each				12834.05
	Say				12834.05
17.79	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal.				
	Details of cost for one pan				
	MATERIAL				
7074	White Vitreous China Waterless Urinal	each	1.00	9650.00	9650.00
7075	Cistern with fittings for Waterless Urinal	each	1.00	2290.00	2290.00
9977	Carriage of materials	L.S.	9.79	2.00	19.58
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				12358.00 W
	Add 1 % Water charges on "W"				123.58
	TOTAL				12481.57 X
	Add GST (multiplying factor 0.1405) on "X"				1753.66
	TOTAL				14235.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				2135.29
	Total				16370.52 Z
	Add Cess @ 1% on "Z"				163.71
	Cost of each				16534.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				16534.25
17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. Details of cost for one pan				
	MATERIAL				
7076	White Vitreous Urinal	each	1.00	4500.00	4500.00
9977	Carriage of materials	L.S.	9.79	2.00	19.58
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				4918.00 W
	Add 1 % Water charges on "W"				49.18
	TOTAL				4967.17 X
	Add GST (multiplying factor 0.1405) on "X"				697.89
	TOTAL				5665.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				849.76
	Total				6514.82 Z
	Add Cess @ 1% on "Z"				65.15
	Cost of each				6579.97
	Say				6579.95
17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. Details of cost for 1 no.				
	MATERIAL				
	Floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual				
1966	flushing system including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc.	each	1.00	9500.00	9500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of material	L.S.	9.79	2.00	19.58
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
	TOTAL				10792.41 W
	Add 1 % Water charges on "W"				107.92
	TOTAL				10900.33 X
	Add GST (multiplying factor 0.1405) on "X"				1531.50
	TOTAL				12431.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				1864.77
	Total				14296.61 Z
	Add Cess @ 1% on "Z"				142.97
	Cost of each				14439.57
	Say				14439.55

SUB HEAD : 18.0

WATER SUPPLY

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.1	Providing and fixing Polyethelene-Aluminium-Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge.				
	INTERNAL WORK - EXPOSED ON WALL				
18.1.1	1216 (16 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8300	1216 mm PE-AL-PE Composit pressure pipe	metre	10.00	62.00	620.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				186.00
9999	Cement, sand and grit	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.7478
	TOTAL				1427.46 W
	Add 1 % Water charges on "W"				14.27
	TOTAL				1441.73 X
	Add GST (multiplying factor 0.1405) on "X"				202.56
	TOTAL				1644.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				246.64
	Total				1890.94 Z
	Add Cess @ 1% on "Z"				18.91
	Cost of 10 metre				1909.85
	Cost of 1 metre				190.98
	Say				191.00
18.1.2	1620 (20 mm OD) pipe				
	Details of cost for 10 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	MATERIAL					
8301	1620 mm PE-AL-PE Composit pressure pipe	metre	10.00	78.00	780.00	X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				234.00	
9999	Cement, sand and grit	L.S.	2.73	2.00	5.46	
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.82	374.50	307.09	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				1695.38	W
	Add 1 % Water charges on "W"				16.95	
	TOTAL				1712.33	X
	Add GST (multiplying factor 0.1405) on "X"				240.58	
	TOTAL				1952.91	Y
	Add 15 % Contractor's profit and overheads on "Y"				292.94	
	Total				2245.85	Z
	Add Cess @ 1% on "Z"				22.46	
	Cost of 10 metre				2268.31	
	Cost of 1 metre				226.83	
	Say				226.85	
18.1.3	2025 (25 mm OD) pipe					
	Details of cost for 10 metre					
	MATERIAL					
8302	2025 mm PE-AL-PE Composit pressure pipe	metre	10.00	110.00	1100.00	X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				330.00	
9999	Cement, sand and grit	L.S.	2.73	2.00	5.46	
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				2171.30	W
	Add 1 % Water charges on "W"				21.71	
	TOTAL				2193.01	X
	Add GST (multiplying factor 0.1405) on "X"				308.12	
	TOTAL				2501.13	Y
	Add 15 % Contractor's profit and overheads on "Y"				375.17	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2876.30 Z
	Add Cess @ 1% on "Z"				28.76
	Cost of 10 metre				2905.06
	Cost of 1 metre				290.51
	Say				290.50
18.1.4	2532 (32 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8303	2532 mm PE-AL-PE Composit pressure pipe	metre	10.00	157.00	1570.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				471.00
9999	Cement, sand and grit	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.98	320.83	314.41
	TOTAL				2887.82 W
	Add 1 % Water charges on "W"				28.88
	TOTAL				2916.70 X
	Add GST (multiplying factor 0.1405) on "X"				409.80
	TOTAL				3326.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				498.97
	Total				3825.47 Z
	Add Cess @ 1% on "Z"				38.25
	Cost of 10 metre				3863.73
	Cost of 1 metre				386.37
	Say				386.35

18.1.5 3240 (40 mm OD) pipe

Details of cost for 10 metre

MATERIAL

8304	3240 mm PE-AL-PE Composit pressure pipe	metre	10.00	235.00	2350.00 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				705.00
9999	Cement, sand and grit	L.S.	5.33	2.00	10.66
	LABOUR				0.00
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				4133.622 W
	Add 1 % Water charges on "W"				41.34
	TOTAL				4174.96 X
	Add GST (multiplying factor 0.1405) on "X"				586.58
	TOTAL				4761.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				714.23
	Total				5475.77 Z
	Add Cess @ 1% on "Z"				54.76
	Cost of 10 metre				5530.53
	Cost of 1 metre				553.05
	Say				553.05
18.1.6	4050 (50 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8305	4050 mm PE-AL-PE Composit pressure pipe	metre	10.00	330.00	3300.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				990.00
9999	Cement, sand and grit	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				5368.622 W
	Add 1 % Water charges on "W"				53.69
	TOTAL				5422.31 X
	Add GST (multiplying factor 0.1405) on "X"				761.83
	TOTAL				6184.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				927.62
	Total				7111.76 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				71.12
	Cost of 10 metre				7182.88
	Cost of 1 metre				718.29
	Say				718.30
18.2	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
	Concealed work, including cutting chases and making good the wall etc.				
18.2.1	1216 (16 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8300	1216 mm PE-AL-PE Composit pressure pipe	metre	10.00	62.00	620.00 X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				465.00
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per item no. 18.78 of SH: Water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2678.03 W
	Add 1 % Water charges on "W-A"	1701.00			17.01
	TOTAL				2695.04 X
	Add GST (multiplying factor 0.1405) on "X-A"	1718.01			241.38
	TOTAL				2936.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1959.39			293.91
	Total				3230.33 Z
	Add Cess @ 1% on "Z-A"	2253.30			22.53
	Cost of 10 metre				3252.86
	Cost of 1 metre				325.29
	Say				325.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
18.2.2	1620 (20 mm OD) pipe					
	Details of cost for 10 metre					
	MATERIAL					
8301	1620 mm PE-AL-PE Composit pressure pipe	metre	10.00	78.00	780.00	X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				585.00	
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same					
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03	A
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				2958.03	W
	Add 1 % Water charges on "W-A"	1981.00			19.81	
	TOTAL				2977.84	X
	Add GST (multiplying factor 0.1405) on "X-A"	2000.81			281.11	
	TOTAL				3258.95	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2281.92			342.29	
	Total				3601.24	Z
	Add Cess @ 1% on "Z-A"	2624.21			26.24	
	Cost of 10 metre				3627.48	
	Cost of 1 metre				362.75	
	Say				362.75	
18.2.3	2025 (25 mm OD) pipe					
	Details of cost for 10 metre					
	MATERIAL					
8302	2025 mm PE-AL-PE Composit pressure pipe	metre	10.00	110.00	1100.00	X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				825.00	
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same					
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03	A
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				3518.03	W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 1 % Water charges on "W-A"		2541.00		25.41	
	TOTAL				3543.44	X
	Add GST (multiplying factor 0.1405) on "X-A"		2566.41		360.58	
	TOTAL				3904.02	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		2926.99		439.05	
	Total				4343.07	Z
	Add Cess @ 1% on "Z-A"		3366.04		33.66	
	Cost of 10 metre				4376.73	
	Cost of 1 metre				437.67	
	Say				437.65	
18.2.4	2532 (32 mm OD) pipe					
	Details of cost for 10 metre					
	MATERIAL					
8303	2532 mm PE-AL-PE Composit pressure pipe	metre	10.00	157.00	1570.00	X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				1177.50	
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same					
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03	A
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				4340.53	W
	Add 1 % Water charges on "W-A"		3363.50		33.63	
	TOTAL				4374.16	X
	Add GST (multiplying factor 0.1405) on "X-A"		3397.13		477.30	
	TOTAL				4851.46	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		3874.43		581.16	
	Total				5432.63	Z
	Add Cess @ 1% on "Z-A"		4455.59		44.56	
	Cost of 10 metre				5477.18	
	Cost of 1 metre				547.72	
	Say				547.70	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.3	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with trenching, refilling and testing of joints complete as per direction of the engineer in charge. External work				
18.3.1	1216 (16 mm OD) pipe Details of cost for 10 metre MATERIAL				
8300	1216 mm PE-AL-PE Composit pressure pipe	metre	10.00	62.00	620.00 X
	Add 30% for fittings and wastage etc. on (X)				186.00
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1318.91 W
	Add 1 % Water charges on "W"				13.19
	TOTAL				1332.10 X
	Add GST (multiplying factor 0.1405) on "X"				187.16
	TOTAL				1519.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				227.89
	Total				1747.15 Z
	Add Cess @ 1% on "Z"				17.47
	Cost of 10 metre				1764.62
	Cost of 1 metre				176.46
	Say				176.45
18.3.2	1620 (20 mm OD) pipe Details of cost for 10 metre MATERIAL				
8301	1620 mm PE-AL-PE Composit pressure pipe	metre	10.00	78.00	780.00 X
	Add 30% for fittings and wastage etc. on (X)				234.00
	30 * X / 100				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1526.91 W
	Add 1 % Water charges on "W"				15.27
	TOTAL				1542.18 X
	Add GST (multiplying factor 0.1405) on "X"				216.68
	TOTAL				1758.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				263.83
	Total				2022.68 Z
	Add Cess @ 1% on "Z"				20.23
	Cost of 10 metre				2042.91
	Cost of 1 metre				204.29
	Say				204.30
18.3.3	2025 (25 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8302	2025 mm PE-AL-PE Composit pressure pipe	metre	10.00	110.00	1100.00 X
	Add 30% for fittings and wastage etc. on (X)				330.00
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				0.00
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1942.91 W
	Add 1 % Water charges on "W"				19.43
	TOTAL				1962.34 X
	Add GST (multiplying factor 0.1405) on "X"				275.71
	TOTAL				2238.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				335.71
	Total				2573.75 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				25.74
	Cost of 10 metre				2599.49
	Cost of 1 metre				259.95
	Say				259.95
18.3.4	2532 (32 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8303	2532 mm PE-AL-PE Composit pressure pipe	metre	10.00	157.00	1570.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				471.00
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2553.91 W
	Add 1 % Water charges on "W"				25.54
	TOTAL				2579.45 X
	Add GST (multiplying factor 0.1405) on "X"				362.41
	TOTAL				2941.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				441.28
	Total				3383.14 Z
	Add Cess @ 1% on "Z"				33.83
	Cost of 10 metre				3416.97
	Cost of 1 metre				341.70
	Say				341.70
18.3.5	3240 (40 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8304	3240 mm PE-AL-PE Composit pressure pipe	metre	10.00	235.00	2350.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				705.00
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				3660.53 W
	Add 1 % Water charges on "W"				36.61
	TOTAL				3697.13 X
	Add GST (multiplying factor 0.1405) on "X"				519.45
	TOTAL				4216.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				632.49
	Total				4849.07 Z
	Add Cess @ 1% on "Z"				48.49
	Cost of 10 metre				4897.56
	Cost of 1 metre				489.76
	Say				489.75
18.3.6	4050 (50 mm OD) pipe				
	Details of cost for 10 metre				
	MATERIAL				
8305	4050 mm PE-AL-PE Composit pressure pipe	metre	10.00	330.00	3300.00 X
	Add 30% for fittings and wastage etc. on (X)				990.00
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				4895.53 W
	Add 1 % Water charges on "W"				48.96
	TOTAL				4944.48 X
	Add GST (multiplying factor 0.1405) on "X"				694.70
	TOTAL				5639.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				845.88
	Total				6485.06 Z
	Add Cess @ 1% on "Z"				64.85
	Cost of 10 metre				6549.91
	Cost of 1 metre				654.99
	Say				655.00
18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Internal Exposed on walls					
18.4.1	PN - 16 Pipe, 20mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8626	Poly propylene- Random - Co -Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia	metre	10.00	43.27	432.70 P
	Add 30% for fittings, clamps and wastage etc. on P, 30xP/100				129.81
9999	Cement, Sand and grit	L.S.	2.73	2.00	5.46
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.82	374.50	307.09
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1243.89
	Add 1 % Water charges on "W"				12.44
	TOTAL				1256.33 X
	Add GST (multiplying factor 0.1405) on "X"				176.51
	TOTAL				1432.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				214.93
	Total				1647.77 Z
	Add Cess @ 1% on "Z"				16.48
	Cost of 10 metre				1664.24
	Cost of 1 metre				166.42
	Say				166.40
18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8627	Poly propylene- Random - Co -Polymer (PPR) pipes PN-16 (SDR 7.4) - 25mm Outer dia	metre	10.00	66.80	668.00 P
	Add 30% for fittings, clamps and wastage etc. on P, 30xP/100				200.40
9999	Cement, Sand and grit	L.S.	2.73	2.00	5.46
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1609.70
	Add 1 % Water charges on "W"				16.10
	TOTAL				1625.79 X
	Add GST (multiplying factor 0.1405) on "X"				228.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1854.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				278.13
	Total				2132.35 Z
	Add Cess @ 1% on "Z"				21.32
	Cost of 10 metre				2153.68
	Cost of 1 metre				215.37
	Say				215.35
18.4.3	PN - 16 Pipe, 32mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	10.00	107.47	1074.70 P
	Add 20% for fittings, clamps and wastage etc. on P, 30xP/100				214.94
9999	Cement, Sand and grit	L.S.	4.16	2.00	8.32
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2033.80
	Add 1 % Water charges on "W"				20.34
	TOTAL				2054.14 X
	Add GST (multiplying factor 0.1405) on "X"				288.61
	TOTAL				2342.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				351.41
	Total				2694.15 Z
	Add Cess @ 1% on "Z"				26.94
	Cost of 10 metre				2721.09
	Cost of 1 metre				272.11
	Say				272.10
18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8629	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 40 mm Outer dia	metre	10.00	161.07	1610.70 P
	Add 15% for fittings, clamps and wastage etc. on P, 30xP/100				241.61
9999	Cement, Sand and grit	L.S.	5.33	2.00	10.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				2930.93
	Add 1 % Water charges on "W"				29.31
	TOTAL				2960.24 X
	Add GST (multiplying factor 0.1405) on "X"				415.91
	TOTAL				3376.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				506.42
	Total				3882.57 Z
	Add Cess @ 1% on "Z"				38.83
	Cost of 10 metre				3921.40
	Cost of 1 metre				392.14
	Say				392.15
18.4.5	PN - PN - 10 Pipe, 50mm OD (SDR-11)				
	Details of cost for 10 metre				
	MATERIAL:				
8630	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 50 mm Outer dia	metre	10.00	252.22	2522.20 P
	Add 15% for fittings, clamps and wastage etc. on P, 30xP/100				378.33
9999	Cement, Sand and grit	L.S.	5.33	2.00	10.66
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				3979.15
	Add 1 % Water charges on "W"				39.79
	TOTAL				4018.94 X
	Add GST (multiplying factor 0.1405) on "X"				564.66
	TOTAL				4583.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				687.54
	Total				5271.15 Z
	Add Cess @ 1% on "Z"				52.71
	Cost of 10 metre				5323.86
	Cost of 1 metre				532.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				532.40
18.5	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge.				
18.5.1	PN - 16 Pipe, 20mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8626	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia Add 75% for fittings, clamps and wastage etc. on P, 75xP/100 Making chases upto 7.5 x 7.5 cm. in walls and making good the same	metre	10.00	43.27	432.70 P 324.53
18.78	Rate as per Item Number 18.78 of SH: Water supply	L.S.	10	97.70	977.00 A
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2350.22 W
	Add 1 % Water charges on "W-A"			1373.22	13.73
	TOTAL				2363.96 X
	Add GST (multiplying factor 0.1405) on "X-A"			1386.96	194.87
	TOTAL				2558.82 Y
	Add 15 % Contractor's profit and overheads on "Y-A"			1581.82	237.27
	Total				2796.10 Z
	Add Cess @ 1% on "Z-A"			1819.10	18.19
	Cost of 10 metre				2814.29
	Cost of 1 metre				281.43
	Say				281.45
18.5.2	PN - 16 Pipe, 25mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8627	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 25 mm Outer dia Add 75% for fittings, clamps and wastage etc. on P, 75xP/100 Making chases upto 7.5 x 7.5 cm. in walls and making good the same	metre	10.00	66.80	668.00 P 501.00
18.78	Rate as per Item Number 18.78 of SH: Water supply	L.S.	10	97.70	977.00 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2762.00 W
	Add 1 % Water charges on "W-A"	1785.00			17.85
	TOTAL				2779.85 X
	Add GST (multiplying factor 0.1405) on "X-A"	1802.85			253.30
	TOTAL				3033.15 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2056.15			308.42
	Total				3341.57 Z
	Add Cess @ 1% on "Z-A"	2364.57			23.65
	Cost of 10 metre				3365.22
	Cost of 1 metre				336.52
	Say				336.50
18.5.3	PN - 16 Pipe, 32mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	10.00	107.47	1074.70 P
	Add 50% for fittings, clamps and wastage etc. on P, 50xP/100				537.35
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	L.S.	10	97.70	977.00 A
	LABOUR:				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				3205.05 W
	Add 1 % Water charges on "W-A"	2228.05			22.28
	TOTAL				3227.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	2250.33			316.17
	TOTAL				3543.50 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2566.50			384.97
	Total				3928.47 Z
	Add Cess @ 1% on "Z-A"	2951.47			29.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost of 10 metre 3957.99

Cost of 1 metre 395.80

Say 395.80

18.6 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge.

18.6.1 PN - 16 Pipe, 20mm OD (SDR-7.4)

Details of cost for 10 metre

MATERIAL:

8626	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia Add 20% for fittings, clamps and wastage etc. on P, 20xP/100	metre	10.00	43.27	432.70 P
	LABOUR:				86.54

0019	Fitter (grade 1)	day	0.08	476.00	38.08

0017	Beldar	day	0.16	320.83	51.33

Trenching and refilling etc.

0017	Beldar	day	0.66	320.83	211.75

0018	Coolie	day	0.66	320.83	211.75

TOTAL					1032.15 W

Add 1 % Water charges on "W"					10.32

TOTAL					1042.47 X

Add GST (multiplying factor 0.1405) on "X"					146.47

TOTAL					1188.94 Y

Add 15 % Contractor's profit and overheads on "Y"					178.34

Total					1367.28 Z

Add Cess @ 1% on "Z"					13.67

Cost of 10 metre					1380.95

Cost of 1 metre					138.10

Say					138.10

18.6.2 PN - 16 Pipe, 25 mm OD (SDR-7.4)

Details of cost for 10 metre

MATERIAL:

8627	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 25 mm Outer dia Add 20% for fittings, clamps and wastage etc. on P, 75xP/100	metre	10.00	66.80	668.00 P
					133.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1362.42 W
	Add 1 % Water charges on "W"				13.62
	TOTAL				1376.05 X
	Add GST (multiplying factor 0.1405) on "X"				193.33
	TOTAL				1569.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				235.41
	Total				1804.79 Z
	Add Cess @ 1% on "Z"				18.05
	Cost of 10 metre				1822.84
	Cost of 1 metre				182.28
	Say				182.30
18.6.3	PN - 16 Pipe, 32 mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	10.00	107.47	1074.70 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				214.94
	LABOUR:				
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1850.46 W
	Add 1 % Water charges on "W"				18.50
	TOTAL				1868.97 X
	Add GST (multiplying factor 0.1405) on "X"				262.59
	TOTAL				2131.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				319.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2451.29 Z
	Add Cess @ 1% on "Z"				24.51
	Cost of 10 metre				2475.80
	Cost of 1 metre				247.58
	Say				247.60
18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)				
	Details of cost for 10 metre				
	MATERIAL:				
8629	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 40 mm Outer dia	metre	10.00	161.07	1610.70 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				322.14
	LABOUR:				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2538.37 W
	Add 1 % Water charges on "W"				25.38
	TOTAL				2563.75 X
	Add GST (multiplying factor 0.1405) on "X"				360.21
	TOTAL				2923.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				438.59
	Total				3362.55 Z
	Add Cess @ 1% on "Z"				33.63
	Cost of 10 metre				3396.18
	Cost of 1 metre				339.62
	Say				339.60

18.6.5 PN - 10 Pipe, 50 mm OD (SDR-11)

Details of cost for 10 metre

MATERIAL:

8630	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 50 mm Outer dia	metre	10.00	252.220	2522.20 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				504.44
	LABOUR:				
0019	Fitter (grade 1)	day	0.16	476.000	76.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.33	320.830	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.830	211.75
0018	Coolie	day	0.66	320.830	211.75
	TOTAL				3632.17 W
	Add 1 % Water charges on "W"				36.32
	TOTAL				3668.49 X
	Add GST (multiplying factor 0.1405) on "X"				515.42
	TOTAL				4183.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				627.59
	Total				4811.50 Z
	Add Cess @ 1% on "Z"				48.12
	Cost of 10 metre				4859.62
	Cost of 1 metre				485.96
	Say				485.95
18.6.6	PN - 10 Pipe, 63 mm OD (SDR-11)				
	Details of cost for 10 metre				
	MATERIAL:				
8631	Poly propylene- Random - Co - Polymer (PPR) pipes	metre	10.00	281.73	2817.30 P
	PN-10 (SDR 11) - 63 mm Outer dia				
	Add 20% for fittings, clamps and wastage etc. on P,				563.46
	20xP/100				
	LABOUR:				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.66	320.83	211.75
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				4135.00 W
	Add 1 % Water charges on "W"				41.35
	TOTAL				4176.35 X
	Add GST (multiplying factor 0.1405) on "X"				586.78
	TOTAL				4763.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				714.47
	Total				5477.60 Z
	Add Cess @ 1% on "Z"				54.78
	Cost of 10 metre				5532.38
	Cost of 1 metre				553.24
	Say				553.25
18.6.7	PN - 10 Pipe, 75 mm OD (SDR-11)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre				
	MATERIAL:				
8632	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 75 mm Outer dia	metre	10.00	418.18	4181.80 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				836.36
	LABOUR:				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.66	320.83	211.75
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				5772.40 W
	Add 1 % Water charges on "W"				57.72
	TOTAL				5830.13 X
	Add GST (multiplying factor 0.1405) on "X"				819.13
	TOTAL				6649.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				997.39
	Total				7646.65 Z
	Add Cess @ 1% on "Z"				76.47
	Cost of 10 metre				7723.12
	Cost of 1 metre				772.31
	Say				772.30

18.6.8 PN - 10 Pipe, 90 mm OD (SDR-11)

	Details of cost for 10 metre				
	MATERIAL:				
8633	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 90 mm Outer dia	metre	10.00	597.63	5976.30 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				1195.26
	LABOUR:				
0019	Fitter (grade 1)	day	0.37	476.00	176.12
0017	Beldar	day	0.97	320.83	311.21
	Trenching and refilling etc.				
0017	Beldar	day	0.8	320.83	256.66
0018	Coolie	day	0.8	320.83	256.66
	TOTAL				8172.21 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				81.72
	TOTAL				8253.94 X
	Add GST (multiplying factor 0.1405) on "X"				1159.68
	TOTAL				9413.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				1412.04
	Total				10825.66 Z
	Add Cess @ 1% on "Z"				108.26
	Cost of 10 metre				10933.91
	Cost of 1 metre				1093.39
	Say				1093.40
18.6.9	PN - 10 Pipe, 110 mm OD (SDR-11)				
	Details of cost for 10 metre				
	MATERIAL:				
8634	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	metre	10.00	885.83	8858.30 P
	Add 20% for fittings, clamps and wastage etc. on P, 20xP/100				1771.66
	LABOUR:				
0019	Fitter (grade 1)	day	0.37	476.00	176.12
0017	Beldar	day	0.97	320.83	311.21
	Trenching and refilling etc.				
0017	Beldar	day	0.80	320.83	256.66
0018	Coolie	day	0.80	320.83	256.66
	TOTAL				11630.61 W
	Add 1 % Water charges on "W"				116.31
	TOTAL				11746.92 X
	Add GST (multiplying factor 0.1405) on "X"				1650.44
	TOTAL				13397.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				2009.60
	Total				15406.97 Z
	Add Cess @ 1% on "Z"				154.07
	Cost of 10 metre				15561.04
	Cost of 1 metre				1556.10
	Say				1556.10

18.6.10 PN - 10 Pipe, 160 mm OD (SDR-11)

Details of cost for 10 metre

MATERIAL:

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8635	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 160 mm Outer dia Add 20% for fittings, clamps and wastage etc. on P, 20xP/100 LABOUR:	metre	10.00	2557.30	25573.00 P
					5114.60
0019	Fitter (grade 1)	day	0.58	476.00	276.08
0017	Beldar	day	1.54	320.83	494.08
	Trenching and refilling etc.				
0017	Beldar	day	1.20	320.83	385.00
0018	Coolie	day	1.20	320.83	385.00
	TOTAL				32227.75 W
	Add 1 % Water charges on "W"				322.28
	TOTAL				32550.03 X
	Add GST (multiplying factor 0.1405) on "X"				4573.28
	TOTAL				37123.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				5568.50
	Total				42691.80 Z
	Add Cess @ 1% on "Z"				426.92
	Cost of 10 metre				43118.72
	Cost of 1 metre				4311.87
	Say				4311.85
18.6A	Providing and fixing PPR Unions				
18.6A.1	PPR Union 20mm				
	Details of cost for 1No.				
	MATERIAL:				
8306	PPR Union 20mm	each	1.00	48.00	48.00
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				139.29 W
	Add 1 % Water charges on "W"				1.39
	TOTAL				140.68 X
	Add GST (multiplying factor 0.1405) on "X"				19.77
	TOTAL				160.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.07
	Total				184.52 Z
	Add Cess @ 1% on "Z"				1.85
	Cost of 1 each				186.36
	Say				186.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.6A.2	PPR Union 25mm				
	Details of cost for 1No.				
	MATERIAL:				
8307	PPR Union 25mm	each	1.00	97.00	97.00
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				188.29 W
	Add 1 % Water charges on "W"				1.88
	TOTAL				190.17 X
	Add GST (multiplying factor 0.1405) on "X"				26.72
	TOTAL				216.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.53
	Total				249.43 Z
	Add Cess @ 1% on "Z"				2.49
	Cost of 1 each				251.92
	Say				251.90
18.6A.3	PPR Union 32mm				
	Details of cost for 1No.				
	MATERIAL:				
8308	PPR Union 32mm	each	1.00	137.20	137.20
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				228.49 W
	Add 1 % Water charges on "W"				2.28
	TOTAL				230.78 X
	Add GST (multiplying factor 0.1405) on "X"				32.42
	TOTAL				263.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.48
	Total				302.68 Z
	Add Cess @ 1% on "Z"				3.03
	Cost of 1 each				305.71
	Say				305.70
18.6A.4	PPR Union 40mm				
	Details of cost for 1No.				
	MATERIAL:				
8309	PPR Union 40mm	each	1.00	184.80	184.80
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				276.09 W
	Add 1 % Water charges on "W"				2.76
	TOTAL				278.85 X
	Add GST (multiplying factor 0.1405) on "X"				39.18
	TOTAL				318.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.70
	Total				365.74 Z
	Add Cess @ 1% on "Z"				3.66
	Cost of 1 each				369.39
	Say				369.40
18.6A.5	PPR Union 50mm				
	Details of cost for 1No.				
	MATERIAL:				
8310	PPR Union 50mm	each	1.00	352.80	352.80
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				444.09 W
	Add 1 % Water charges on "W"				4.44
	TOTAL				448.53 X
	Add GST (multiplying factor 0.1405) on "X"				63.02
	TOTAL				511.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				76.73
	Total				588.28 Z
	Add Cess @ 1% on "Z"				5.88
	Cost of 1 each				594.17
	Say				594.15
18.6A.6	PPR Union 50mm				
	Details of cost for 1No.				
	MATERIAL:				
8311	PPR Union 50mm	each	1.00	483.60	483.60
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR:				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				574.89 W
	Add 1 % Water charges on "W"				5.75
	TOTAL				580.64 X
	Add GST (multiplying factor 0.1405) on "X"				81.58
	TOTAL				662.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.33
	Total				761.55 Z
	Add Cess @ 1% on "Z"				7.62
	Cost of 1 each				769.17
	Say				769.15

18.6A.7 PPR Union 75mm

Details of cost for 1No.

MATERIAL:

8312	PPR Union 75mm	each	1.00	933.00	933.00
9999	Carriage of materials and sundries	L.S.	1.82	2.00	3.64

LABOUR:

0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29

TOTAL					1024.29 W

Add 1 % Water charges on "W"					10.24

TOTAL					1034.53 X

Add GST (multiplying factor 0.1405) on "X"					145.35

TOTAL					1179.89 Y

Add 15 % Contractor's profit and overheads on "Y"					176.98

Total					1356.87 Z

Add Cess @ 1% on "Z"					13.57

Cost of 1 each					1370.44

Say					1370.45

18.7 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work -

Exposed on wall

18.7.1 15 mm nominal outer dia Pipes

Details of cost for 10 metre

MATERIAL

8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	10.00	48.55	485.50 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				145.65
9999	Cement, sand and grit etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.82	374.50	307.09
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1312.53 W
	Add 1 % Water charges on "W"				13.13
	TOTAL				1325.65 X
	Add GST (multiplying factor 0.1405) on "X"				186.25
	TOTAL				1511.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				226.79
	Total				1738.69 Z
	Add Cess @ 1% on "Z"				17.39
	Cost of 10 metre				1756.08
	Cost of 1 metre				175.61
	Say				175.60
18.7.2	20 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	10.00	77.80	778.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				233.40
9999	Cement, sand and grit etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1752.70 W
	Add 1 % Water charges on "W"				17.53

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1770.22 X
	Add GST (multiplying factor 0.1405) on "X"				248.72
	TOTAL				2018.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				302.84
	Total				2321.78 Z
	Add Cess @ 1% on "Z"				23.22
	Cost of 10 metre				2345.00
	Cost of 1 metre				234.50
	Say				234.50

18.7.3 25 mm nominal outer dia Pipes

Details of cost for 10 metre

MATERIAL

8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	10.00	113.60	1136.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				340.80

9999	Cement, sand and grit etc.	L.S.	2.73	2.00	5.46

LABOUR

0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.66	320.83	211.75

TOTAL					2218.10 W

Add 1 % Water charges on "W"					22.18

TOTAL					2240.28 X

Add GST (multiplying factor 0.1405) on "X"					314.76

TOTAL					2555.04 Y

Add 15 % Contractor's profit and overheads on "Y"					383.26

Total					2938.29 Z

Add Cess @ 1% on "Z"					29.38

Cost of 10 metre					2967.68

Cost of 1 metre					296.77

Say					296.75

18.7.4 32 mm nominal outer dia Pipes

Details of cost for 10 metre

MATERIAL

8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	10.00	163.65	1636.50 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				490.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cement, sand and grit etc.	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.98	320.83	314.41
	TOTAL				2974.27 W
	Add 1 % Water charges on "W"				29.74
	TOTAL				3004.02 X
	Add GST (multiplying factor 0.1405) on "X"				422.06
	TOTAL				3426.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				513.91
	Total				3939.99 Z
	Add Cess @ 1% on "Z"				39.40
	Cost of 10 metre				3979.39
	Cost of 1 metre				397.94
	Say				397.95
18.7.5	40 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	10.00	228.70	2287.00 X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				686.10
9999	Cement, sand and grit etc.	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				4051.72 W
	Add 1 % Water charges on "W"				40.52
	TOTAL				4092.24 X
	Add GST (multiplying factor 0.1405) on "X"				574.96
	TOTAL				4667.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				700.08
	Total				5367.28 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add Cess @ 1% on "Z"				53.67	
	Cost of 10 metre				5420.95	
	Cost of 1 metre				542.10	
	Say				542.10	
18.7.6	50 mm nominal outer dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	10.00	375.25	3752.50	X
	Add 30% for fittings and wastage etc. on (X) 30 * X / 100				1125.75	
9999	Cement, sand and grit etc.	L.S.	5.33	2.00	10.66	
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60	
0017	Beldar	day	1.31	320.83	420.29	
	TOTAL				5956.87	W
	Add 1 % Water charges on "W"				59.57	
	TOTAL				6016.44	X
	Add GST (multiplying factor 0.1405) on "X"				845.31	
	TOTAL				6861.75	Y
	Add 15 % Contractor's profit and overheads on "Y"				1029.26	
	Total				7891.01	Z
	Add Cess @ 1% on "Z"				78.91	
	Cost of 10 metre				7969.92	
	Cost of 1 metre				796.99	
	Say				797.00	
18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
	Concealed work, including cutting chases and making good the walls etc.					
18.8.1	15 mm nominal outer dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	10.00	48.55	485.50	X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 75% for fittings, clamps and wastage etc. on (X) $75 * X / 100$ Making chases upto 7.5 x 7.5 cm. in walls and making good the same				364.13
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2442.65 W
	Add 1 % Water charges on "W-A"	1465.62			14.66
	TOTAL				2457.31 X
	Add GST (multiplying factor 0.1405) on "X-A"	1480.28			207.98
	TOTAL				2665.29 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1688.26			253.24
	Total				2918.53 Z
	Add Cess @ 1% on "Z-A"	1941.50			19.41
	Cost of 10 metre				2937.94
	Cost of 1 metre				293.79
	Say				293.80
18.8.2	20 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	10.00	77.80	778.00 X
	Add 75% for fittings, clamps and wastage etc. on (X) $75 * X / 100$ Making chases upto 7.5 x 7.5 cm. in walls and making good the same				583.50
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2954.53 W
	Add 1 % Water charges on "W-A"	1977.50			19.77
	TOTAL				2974.30 X
	Add GST (multiplying factor 0.1405) on "X-A"	1997.27			280.62
	TOTAL				3254.92 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"		2277.89		341.68	
	Total				3596.60	Z
	Add Cess @ 1% on "Z-A"		2619.57		26.20	
	Cost of 10 metre				3622.80	
	Cost of 1 metre				362.28	
	Say				362.30	
18.8.3	25 mm nominal outer dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	10.00	113.60	1136.00	X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				852.00	
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same					
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03	A
	LABOUR					
0019	Fitter (grade 1)	day	0.33	476.00	157.08	
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17	
0017	Beldar	day	0.66	320.83	211.75	
	TOTAL				3581.03	W
	Add 1 % Water charges on "W-A"		2604.00		26.04	
	TOTAL				3607.07	X
	Add GST (multiplying factor 0.1405) on "X-A"		2630.04		369.52	
	TOTAL				3976.59	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		2999.56		449.93	
	Total				4426.52	Z
	Add Cess @ 1% on "Z-A"		3449.49		34.49	
	Cost of 10 metre				4461.02	
	Cost of 1 metre				446.10	
	Say				446.10	
18.8.4	32 mm nominal outer dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	10.00	163.65	1636.50	X
	Add 75% for fittings, clamps and wastage etc. on (X) 75 * X / 100				1227.38	
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.78	Rate as per item no. 18.78 of SH: water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				4456.90 W
	Add 1 % Water charges on "W-A"	3479.87			34.80
	TOTAL				4491.70 X
	Add GST (multiplying factor 0.1405) on "X-A"	3514.67			493.81
	TOTAL				4985.51 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4008.48			601.27
	Total				5586.79 Z
	Add Cess @ 1% on "Z-A"	4609.76			46.10
	Cost of 10 metre				5632.88
	Cost of 1 metre				563.29
	Say				563.30
18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	External work				
18.9.1	15 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	10.00	48.55	485.50 X
	Add 30% for fittings and wastage etc. on (X)				145.65
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1144.06 W
	Add 1 % Water charges on "W"				11.44
	TOTAL				1155.50 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				162.35
	TOTAL				1317.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				197.68
	Total				1515.52 Z
	Add Cess @ 1% on "Z"				15.16
	Cost of 10 metre				1530.68
	Cost of 1 metre				153.07
	Say				153.05
18.9.2	20 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	10.00	77.80	778.00 X
	Add 30% for fittings and wastage etc. on (X)				233.40
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1524.31 W
	Add 1 % Water charges on "W"				15.24
	TOTAL				1539.55 X
	Add GST (multiplying factor 0.1405) on "X"				216.31
	TOTAL				1755.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				263.38
	Total				2019.24 Z
	Add Cess @ 1% on "Z"				20.19
	Cost of 10 metre				2039.43
	Cost of 1 metre				203.94
	Say				203.95
18.9.3	25 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	10.00	113.60	1136.00 X
	Add 30% for fittings and wastage etc. on (X)				340.80
	30 * X / 100				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2037.62 W
	Add 1 % Water charges on "W"				20.38
	TOTAL				2058.00 X
	Add GST (multiplying factor 0.1405) on "X"				289.15
	TOTAL				2347.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				352.07
	Total				2699.22 Z
	Add Cess @ 1% on "Z"				26.99
	Cost of 10 metre				2726.21
	Cost of 1 metre				272.62
	Say				272.60
18.9.4	32 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	10.00	163.65	1636.50 X
	Add 30% for fittings and wastage etc. on (X)				490.95
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2688.27 W
	Add 1 % Water charges on "W"				26.88
	TOTAL				2715.16 X
	Add GST (multiplying factor 0.1405) on "X"				381.48
	TOTAL				3096.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				464.50
	Total				3561.13 Z
	Add Cess @ 1% on "Z"				35.61
	Cost of 10 metre				3596.74
	Cost of 1 metre				359.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				359.65
18.9.5	40 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	10.00	228.70	2287.00 X
	Add 30% for fittings and wastage etc. on (X)				686.10
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				3578.63 W
	Add 1 % Water charges on "W"				35.79
	TOTAL				3614.42 X
	Add GST (multiplying factor 0.1405) on "X"				507.83
	TOTAL				4122.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				618.34
	Total				4740.58 Z
	Add Cess @ 1% on "Z"				47.41
	Cost of 10 metre				4787.98
	Cost of 1 metre				478.80
	Say				478.80
18.9.6	50 mm nominal outer dia Pipes				
	Details of cost for 10 metre				
	MATERIAL				
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	10.00	375.25	3752.50 X
	Add 30% for fittings and wastage etc. on (X)				1125.75
	30 * X / 100				
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				5483.78 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 1 % Water charges on "W"				54.84	
	TOTAL				5538.62	X
	Add GST (multiplying factor 0.1405) on "X"				778.18	
	TOTAL				6316.79	Y
	Add 15 % Contractor's profit and overheads on "Y"				947.52	
	Total				7264.31	Z
	Add Cess @ 1% on "Z"				72.64	
	Cost of 10 metre				7336.96	
	Cost of 1 metre				733.70	
	Say				733.70	
18.9.7	62.50 mm nominal inner dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	10.00	793.30	7933.00	X
	Add 30% for fittings and wastage etc. on (X)				2379.90	
	30 * X / 100					
	LABOUR					
0019	Fitter (grade 1)	day	0.25	476.00	119.00	
0017	Beldar	day	0.66	320.83	211.75	
	Trenching and refilling etc.					
0017	Beldar	day	0.66	320.83	211.75	
0018	Coolie	day	0.66	320.83	211.75	
	TOTAL				11067.14	W
	Add 1 % Water charges on "W"				110.67	
	TOTAL				11177.81	X
	Add GST (multiplying factor 0.1405) on "X"				1570.48	
	TOTAL				12748.30	Y
	Add 15 % Contractor's profit and overheads on "Y"				1912.24	
	Total				14660.54	Z
	Add Cess @ 1% on "Z"				146.61	
	Cost of 10 metre				14807.15	
	Cost of 1 metre				1480.71	
	Say				1480.70	

18.9.8 75 mm nominal inner dia Pipes

Details of cost for 10 metre

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia. Add 30% for fittings and wastage etc. on (X) 30 * X / 100 LABOUR	metre	10.00	1031.05	10310.50	X
					3093.15	
0019	Fitter (grade 1)	day	0.25	476.00	119.00	
0017	Beldar	day	0.66	320.83	211.75	
	Trenching and refilling etc.					
0017	Beldar	day	0.66	320.83	211.75	
0018	Coolie	day	0.66	320.83	211.75	
	TOTAL				14157.89	W
	Add 1 % Water charges on "W"				141.58	
	TOTAL				14299.47	X
	Add GST (multiplying factor 0.1405) on "X"				2009.08	
	TOTAL				16308.55	Y
	Add 15 % Contractor's profit and overheads on "Y"				2446.28	
	Total				18754.83	Z
	Add Cess @ 1% on "Z"				187.55	
	Cost of 10 metre				18942.38	
	Cost of 1 metre				1894.24	
	Say				1894.25	
18.9.9	100 mm nominal inner dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia. Add 30% for fittings and wastage etc. on (X) 30 * X / 100 LABOUR	metre	10.00	1466.75	14667.50	X
					4400.25	
0019	Fitter (grade 1)	day	0.37	476.00	176.12	
0017	Beldar	day	0.97	320.83	311.21	
	Trenching and refilling etc.					
0017	Beldar	day	0.8	320.83	256.66	
0018	Coolie	day	0.8	320.83	256.66	
	TOTAL				20068.40	W
	Add 1 % Water charges on "W"				200.68	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				20269.09	X
	Add GST (multiplying factor 0.1405) on "X"				2847.81	
	TOTAL				23116.89	Y
	Add 15 % Contractor's profit and overheads on "Y"				3467.53	
	Total				26584.43	Z
	Add Cess @ 1% on "Z"				265.84	
	Cost of 10 metre				26850.27	
	Cost of 1 metre				2685.03	
	Say				2685.05	
18.9.10	150 mm nominal inner dia Pipes					
	Details of cost for 10 metre					
	MATERIAL					
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	10.00	3145.15	31451.50	X
	Add 30% for fittings and wastage etc. on (X)				9435.45	
	30 * X / 100					
	LABOUR					
0019	Fitter (grade 1)	day	0.58	476.00	276.08	
0017	Beldar	day	1.54	320.83	494.08	
	Trenching and refilling etc.					
0017	Beldar	day	1.2	320.83	385.00	
0018	Coolie	day	1.2	320.83	385.00	
	TOTAL				42427.10	W
	Add 1 % Water charges on "W"				424.27	
	TOTAL				42851.37	X
	Add GST (multiplying factor 0.1405) on "X"				6020.62	
	TOTAL				48871.99	Y
	Add 15 % Contractor's profit and overheads on "Y"				7330.80	
	Total				56202.79	Z
	Add Cess @ 1% on "Z"				562.03	
	Cost of 10 metre				56764.82	
	Cost of 1 metre				5676.48	
	Say				5676.50	
18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall					
18.10.1	15 mm dia nominal bore					
	Details of cost for 10 metre					
	MATERIAL					
1545	G.I. pipes 15 mm dia	metre	11.50	91.00	1046.50	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 * 12.30 = 14.145 kg = 0.014145 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.014145	94.34	1.33
9999	White lead, hemp, oil etc.	L.S.	8.06	2.00	16.12
9999	Cement, sand and grit etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1685.41 W
	Add 1 % Water charges on "W"				16.85
	TOTAL				1702.27 X
	Add GST (multiplying factor 0.1405) on "X"				239.17
	TOTAL				1941.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				291.22
	Total				2232.65 Z
	Add Cess @ 1% on "Z"				22.33
	Cost of 10 metre				2254.98
	Cost of 1 metre				225.50
	Say				225.50
18.10.2	20 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1546	G.I. pipes 20 mm dia	metre	11.50	120.00	1380.00
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 * 15.90 = 18.285 kg = 0.018285 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.018285	94.34	1.72
9999	White lead, hemp, oil etc.	L.S.	8.06	2.00	16.12
9999	Cement, sand and grit etc.	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.82	374.50	307.09
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2079.22 W
	Add 1 % Water charges on "W"				20.79
	TOTAL				2100.01 X
	Add GST (multiplying factor 0.1405) on "X"				295.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2395.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				359.26
	Total				2754.33 Z
	Add Cess @ 1% on "Z"				27.54
	Cost of 10 metre				2781.87
	Cost of 1 metre				278.19
	Say				278.20
18.10.3	25 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1547	G.I. pipes 25 mm dia	metre	11.50	171.00	1966.50
	Weight for carriage = pipe weight + 15% for fittings = $1.15 * 24.60 = 28.29 \text{ kg} = 0.02829 \text{ tonne}$				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.02829	94.34	2.67
9999	White lead, hemp, oil etc.	L.S.	9.49	2.00	18.98
9999	Cement, sand and grit etc.	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2732.31 W
	Add 1 % Water charges on "W"				27.32
	TOTAL				2759.63 X
	Add GST (multiplying factor 0.1405) on "X"				387.73
	TOTAL				3147.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				472.10
	Total				3619.46 Z
	Add Cess @ 1% on "Z"				36.19
	Cost of 10 metre				3655.66
	Cost of 1 metre				365.57
	Say				365.55
18.10.4	32 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1548	G.I. pipes 32 mm dia	metre	11.50	215.00	2472.50
	Weight for carriage = pipe weight + 15% for fittings = $1.15 * 31.70 = 36.455 \text{ kg} = 0.036455 \text{ tonne}$				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.036455	94.34	3.44
9999	White lead, hemp, oil etc.	L.S.	9.49	2.00	18.98
9999	Cement, sand and grit etc.	L.S.	4.16	2.00	8.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.98	374.50	367.01
0017	Beldar	day	0.98	320.83	314.41
	TOTAL				3341.74 W
	Add 1 % Water charges on "W"				33.42
	TOTAL				3375.16 X
	Add GST (multiplying factor 0.1405) on "X"				474.21
	TOTAL				3849.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				577.41
	Total				4426.78 Z
	Add Cess @ 1% on "Z"				44.27
	Cost of 10 metre				4471.04
	Cost of 1 metre				447.10
	Say				447.10
18.10.5	40 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1549	G.I. pipes 40 mm dia	metre	11.50	250.00	2875.00
	Weight for carriage = pipe weight + 15% for fittings = 1.15 * 36.50 = 41.975 kg = 0.041975 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.041975	94.34	3.96
9999	White lead, hemp, oil etc.	L.S.	13.52	2.00	27.04
9999	Cement, sand and grit etc.	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	1.31	374.50	490.60
0017	Beldar	day	1.31	320.83	420.29
	TOTAL				3984.62 W
	Add 1 % Water charges on "W"				39.85
	TOTAL				4024.47 X
	Add GST (multiplying factor 0.1405) on "X"				565.44
	TOTAL				4589.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				688.49
	Total				5278.39 Z
	Add Cess @ 1% on "Z"				52.78
	Cost of 10 metre				5331.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost of 1 metre 533.12

Say 533.10

18.10.6 50 mm dia nominal bore

Details of cost for 10 metre

MATERIAL

1550 G.I. pipes 50 mm dia metre 11.50 310.00 3565.00

Weight for carriage = pipe weight +

15% for fittings =

$1.15 * 51.70 = 59.455 \text{ kg} = 0.059455 \text{ tonne}$

2271 Carriage of G.I. pipes below 100 mm dia tonne 0.059455 94.34 5.61

9999 White lead, hemp, oil etc. L.S. 13.52 2.00 27.04

9999 Cement, sand and grit etc. L.S. 5.33 2.00 10.66

LABOUR

0019 Fitter (grade 1) day 0.33 476.00 157.08

0020 Assistant Fitter or 2nd class Fitter day 1.64 374.50 614.18

0017 Beldar day 1.64 320.83 526.16

TOTAL 4905.73 W

Add 1 % Water charges on "W" 49.06

TOTAL 4954.79 X

Add GST (multiplying factor 0.1405) on "X" 696.15

TOTAL 5650.93 Y

Add 15 % Contractor's profit and overheads on "Y" 847.64

Total 6498.58 Z

Add Cess @ 1% on "Z" 64.99

Cost of 10 metre 6563.56

Cost of 1 metre 656.36

Say 656.35

18.11 Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :

18.11.1 15 mm dia nominal bore

Details of cost for 10 metre

MATERIAL

1545 G.I. pipes 15 mm dia metre 11.50 91.00 1046.50

Weight for carriage = pipe weight + 15% for fittings =

$1.15 * 12.30 = 14.145 \text{ kg} = 0.014145 \text{ tonne}$

2271 Carriage of G.I. pipes below 100 mm dia tonne 0.014145 94.34 1.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	White lead, hemp, oil etc.	L.S.	8.06	2.00	16.12
18.40.1	Painting G.I. pipe with anti-corrosive bitumastic paint two or more coats (Rate same as per item no. 18.40.1) Making chases upto 7.5x7.5cm in walls and making good the same	metre	10.00	6.65	66.49 A
18.78	Rate as per item no. 18.78 Of SH Water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2723.48 W
	Add 1 % Water charges on "W-A"	1679.95			16.80
	TOTAL				2740.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	1696.75			238.39
	TOTAL				2978.67 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1935.15			290.27
	Total				3268.94 Z
	Add Cess @ 1% on "Z-A"	2225.42			22.25
	Cost of 10 metre				3291.20
	Cost of 1 metre				329.12
	Say				329.10
18.11.2	20 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1546	G.I. pipes 20 mm dia Weight for carriage = pipe weight + 15% for fittings = 1.15 * 15.90 = 18.285 kg = 0.018285 tonne	metre	11.500	120.00	1380.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.018285	94.34	1.72
9999	White lead, hemp, oil etc.	L.S.	8.06	2.00	16.12
18.40.2	Painting G.I. pipe with anti-corrosive bitumastic paint two or more coats (Rate same as per item no. 18.40.2 Of SH Water Supply) Making chases upto 7.5x7.5cm in walls and making good the same	metre	10.00	7.80	78.00 A
18.78	Rate as per item no. 18.78 Of SH Water Supply	metre	10.00	97.70	977.03 A
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				3068.87 W
	Add 1 % Water charges on "W-A"	2013.84			20.14
	TOTAL				3089.01 X
	Add GST (multiplying factor 0.1405) on "X-A"	2033.98			285.77
	TOTAL				3374.79 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2319.76			347.96
	Total				3722.75 Z
	Add Cess @ 1% on "Z-A"	2667.72			26.68
	Cost of 10 metre				3749.43
	Cost of 1 metre				374.94
	Say				374.95
18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
	External work				
18.12.1	15 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1545	G.I. pipes 15 mm dia	metre	10.20	91.00	928.20
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 12.30 = 12.546 kg = 0.012546 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.012546	94.34	1.18
9999	White lead, hemp, oil etc.	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1452.95 W
	Add 1 % Water charges on "W"				14.53
	TOTAL				1467.48 X
	Add GST (multiplying factor 0.1405) on "X"				206.18
	TOTAL				1673.66 Y
	Add 15 % Contractor's profit and overheads on "Y"				251.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1924.71 Z
	Add Cess @ 1% on "Z"				19.25
	Cost of 10 metre				1943.96
	Cost of 1 metre				194.40
	Say				194.40
18.12.2	20 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1546	G.I. pipes 20 mm dia	metre	10.20	120.00	1224.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 15.90 = 16.218 kg = 0.016218 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.016218	94.34	1.53
9999	White lead, hemp, oil etc.	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.16	320.83	51.33
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				1749.10 W
	Add 1 % Water charges on "W"				17.49
	TOTAL				1766.59 X
	Add GST (multiplying factor 0.1405) on "X"				248.21
	TOTAL				2014.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				302.22
	Total				2317.01 Z
	Add Cess @ 1% on "Z"				23.17
	Cost of 10 metre				2340.18
	Cost of 1 metre				234.02
	Say				234.00

18.12.3 25 mm dia nominal bore

Details of cost for 10 metre

MATERIAL

1547	G.I. pipes 25 mm dia	metre	10.20	171.00	1744.20
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 24.60 = 25.092 kg = 0.025092 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.025092	94.34	2.37
9999	White lead, hemp, oil etc.	L.S.	6.76	2.00	13.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2320.91 W
	Add 1 % Water charges on "W"				23.21
	TOTAL				2344.12 X
	Add GST (multiplying factor 0.1405) on "X"				329.35
	TOTAL				2673.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				401.02
	Total				3074.49 Z
	Add Cess @ 1% on "Z"				30.74
	Cost of 10 metre				3105.23
	Cost of 1 metre				310.52
	Say				310.50
18.12.4	32 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1548	G.I. pipes 32 mm dia	metre	10.20	215.00	2193.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 31.70 = 32.334 kg = 0.032334 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.032334	94.34	3.05
9999	White lead, hemp, oil etc.	L.S.	6.76	2.00	13.52
	LABOUR				
0019	Fitter (grade 1)	day	0.12	476.00	57.12
0017	Beldar	day	0.25	320.83	80.21
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				2770.39 W
	Add 1 % Water charges on "W"				27.70
	TOTAL				2798.10 X
	Add GST (multiplying factor 0.1405) on "X"				393.13
	TOTAL				3191.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				478.68
	Total				3669.91 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				36.70
	Cost of 10 metre				3706.61
	Cost of 1 metre				370.66
	Say				370.65
18.12.5	40 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1549	G.I. pipes 40 mm dia	metre	10.20	250.00	2550.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 36.50 = 37.23 kg = 0.03723 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.03723	94.34	3.51
9999	White lead, hemp, oil etc.	L.S.	9.49	2.00	18.98
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				3178.02 W
	Add 1 % Water charges on "W"				31.78
	TOTAL				3209.80 X
	Add GST (multiplying factor 0.1405) on "X"				450.98
	TOTAL				3660.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				549.12
	Total				4209.90 Z
	Add Cess @ 1% on "Z"				42.10
	Cost of 10 metre				4251.99
	Cost of 1 metre				425.20
	Say				425.20
18.12.6	50 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1550	G.I. pipes 50 mm dia	metre	10.20	310.00	3162.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 51.70 = 52.73 kg = 0.05273 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.052734	94.34	4.97
9999	White lead, hemp, oil etc.	L.S.	9.49	2.00	18.98
	LABOUR				
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.33	320.83	105.87
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				3791.48 W
	Add 1 % Water charges on "W"				37.91
	TOTAL				3829.40 X
	Add GST (multiplying factor 0.1405) on "X"				538.03
	TOTAL				4367.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				655.11
	Total				5022.54 Z
	Add Cess @ 1% on "Z"				50.23
	Cost of 10 metre				5072.77
	Cost of 1 metre				507.28
	Say				507.30
18.12.7	65 mm dia nominal bore				
	Details of cost for 10 metre				
	MATERIAL				
1551	G.I. pipes 65 mm dia	metre	10.20	395.00	4029.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 66.30 = 67.626 kg = 0.067626 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.067626	94.34	6.38
9999	White lead, hemp, oil etc.	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.66	320.83	211.75
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				4816.66 W
	Add 1 % Water charges on "W"				48.17
	TOTAL				4864.83 X
	Add GST (multiplying factor 0.1405) on "X"				683.51
	TOTAL				5548.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				832.25
	Total				6380.59 Z
	Add Cess @ 1% on "Z"				63.81
	Cost of 10 metre				6444.39
	Cost of 1 metre				644.44
	Say				644.45
18.12.8	80 mm dia nominal bore				
	Details of cost for 10 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1552	G.I. pipes 80 mm dia	metre	10.20	505.00	5151.00
	Weight for carriage = pipe weight + 2% for fittings = 1.02 * 86.40 = 88.128 kg = 0.088128 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.088128	94.34	8.31
9999	White lead, hemp, oil etc.	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.66	320.83	211.75
	Trenching and refilling etc.				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.66	320.83	211.75
	TOTAL				5940.60 W
	Add 1 % Water charges on "W"				59.41
	TOTAL				6000.00 X
	Add GST (multiplying factor 0.1405) on "X"				843.00
	TOTAL				6843.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				1026.45
	Total				7869.45 Z
	Add Cess @ 1% on "Z"				78.69
	Cost of 10 metre				7948.15
	Cost of 1 metre				794.81
	Say				794.80
18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
18.13.1	25 to 40 mm nominal bore				
	Details of cost for one connection.				
	Take 25mm dia as an average size.				
	MATERIAL				
1608	G.I. tees (equal) 25 mm	each	1	50.00	50.00
1555	G.I. back (jam) nuts 25 mm dia	each	1	15.00	15.00
9988	Carriage of materials and sundries	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				338.61 W
	Add 1 % Water charges on "W"				3.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				342.00 X
	Add GST (multiplying factor 0.1405) on "X"				48.05
	TOTAL				390.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.51
	Total				448.56 Z
	Add Cess @ 1% on "Z"				4.49
	Cost of one connection				453.04
	Say				453.05
18.13.2	50 to 80 mm nominal bore				
	Details of cost for one connection.				
	Take 65mm dia as an average size.				
	MATERIAL				
1612	G.I. tees (equal) 65 mm	each	1	452.00	452.00
1559	G.I. back (jam) nuts 65 mm dia	each	1	25.00	25.00
9988	Carriage of materials and sundries	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
	TOTAL				846.23 W
	Add 1 % Water charges on "W"				8.46
	TOTAL				854.70 X
	Add GST (multiplying factor 0.1405) on "X"				120.08
	TOTAL				974.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				146.22
	Total				1121.00 Z
	Add Cess @ 1% on "Z"				11.21
	Cost of one connection				1132.21
	Say				1132.20
18.14	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).				
	Details of cost for one meter with stop cock				
	MATERIAL				
1555	G.I. back (jam) nuts 25 mm dia	each	1	15.00	15.00
9988	Carriage of materials and sundries	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				288.61 W
	Add 1 % Water charges on "W"				2.89
	TOTAL				291.50 X
	Add GST (multiplying factor 0.1405) on "X"				40.96
	TOTAL				332.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.87
	Total				382.32 Z
	Add Cess @ 1% on "Z"				3.82
	Cost of one meter with stop cock.				386.15
	Say				386.15
18.15	Providing and fixing brass bib cock of approved quality :				
18.15.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1339	Brass bib-cock 15 mm dia	each	1	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				226.12 W
	Add 1 % Water charges on "W"				2.26
	TOTAL				228.38 X
	Add GST (multiplying factor 0.1405) on "X"				32.09
	TOTAL				260.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.07
	Total				299.54 Z
	Add Cess @ 1% on "Z"				3.00
	Cost of one no.				302.53
	Say				302.55
18.15.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1340	Brass bib-cock 20 mm dia	each	1.00	225.00	225.00
9988	Carriage of materials and fixing charges	L.S.	9.49	2.00	18.98
	TOTAL				243.98 W
	Add 1 % Water charges on "W"				2.44
	TOTAL				246.42 X
	Add GST (multiplying factor 0.1405) on "X"				34.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				281.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.16
	Total				323.20 Z
	Add Cess @ 1% on "Z"				3.23
	Cost of one no.				326.43
	Say				326.45
18.16	Providing and fixing brass stop cock of approved quality :				
18.16.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1342	Brass stop-cock 15 mm dia	each	1.00	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				226.12 W
	Add 1 % Water charges on "W"				2.26
	TOTAL				228.38 X
	Add GST (multiplying factor 0.1405) on "X"				32.09
	TOTAL				260.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.07
	Total				299.54 Z
	Add Cess @ 1% on "Z"				3.00
	Cost of one no.				302.53
	Say				302.55
18.16.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1343	Brass stop-cock 20 mm dia	each	1.00	225.00	225.00
9988	Carriage of materials and fixing charges	L.S.	9.49	2.00	18.98
	TOTAL				243.98 W
	Add 1 % Water charges on "W"				2.44
	TOTAL				246.42 X
	Add GST (multiplying factor 0.1405) on "X"				34.62
	TOTAL				281.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.16
	Total				323.20 Z
	Add Cess @ 1% on "Z"				3.23
	Cost of one no.				326.43
	Say				326.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
18.17.1	25 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	1	350.00	350.00
9988	Carriage of materials and fixing charges	L.S.	10.79	2.00	21.58
	TOTAL				371.58 W
	Add 1 % Water charges on "W"				3.72
	TOTAL				375.30 X
	Add GST (multiplying factor 0.1405) on "X"				52.73
	TOTAL				428.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.20
	Total				492.23 Z
	Add Cess @ 1% on "Z"				4.92
	Cost of one no.				497.15
	Say				497.15
18. 17.1A	20 mm nominal bore				
	Details of cost for 1 No.				
	MATERIAL				
1926	20 mm dia Gunmetal gate valve with wheel	each	1	325.00	325.00
9977	Carriage of metrial and fixing charge	L.S.	9.49	2.00	18.98
	TOTAL				343.98 W
	Add 1 % Water charges on "W"				3.44
	TOTAL				347.42 X
	Add GST (multiplying factor 0.1405) on "X"				48.81
	TOTAL				396.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.43
	Total				455.67 Z
	Add Cess @ 1% on "Z"				4.56
	Cost of one no.				460.22
	Say				460.20
18.17.2	32 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL				
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	1	410.00	410.00
9988	Carriage of materials and fixing charges	L.S.	12.22	2.00	24.44
	TOTAL				434.44 W
	Add 1 % Water charges on "W"				4.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				438.78 X
	Add GST (multiplying factor 0.1405) on "X"				61.65
	TOTAL				500.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.07
	Total				575.50 Z
	Add Cess @ 1% on "Z"				5.75
	Cost of one no.				581.25
	Say				581.25
18.17.3	40 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	1	480.00	480.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				507.04 W
	Add 1 % Water charges on "W"				5.07
	TOTAL				512.11 X
	Add GST (multiplying factor 0.1405) on "X"				71.95
	TOTAL				584.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				87.61
	Total				671.67 Z
	Add Cess @ 1% on "Z"				6.72
	Cost of one no.				678.39
	Say				678.40
18.17.4	50 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	1	620.00	620.00
9988	Carriage of materials and fixing charges	L.S.	14.82	2.00	29.64
	TOTAL				649.64 W
	Add 1 % Water charges on "W"				6.50
	TOTAL				656.14 X
	Add GST (multiplying factor 0.1405) on "X"				92.19
	TOTAL				748.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.25
	Total				860.57 Z
	Add Cess @ 1% on "Z"				8.61
	Cost of one no.				869.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				869.20
18.17.5	65 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1	1080.00	1080.00
9988	Carriage of materials and fixing charges	L.S.	16.12	2.00	32.24
	TOTAL				1112.24 W
	Add 1 % Water charges on "W"				11.12
	TOTAL				1123.36 X
	Add GST (multiplying factor 0.1405) on "X"				157.83
	TOTAL				1281.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				192.18
	Total				1473.37 Z
	Add Cess @ 1% on "Z"				14.73
	Cost of one no.				1488.11
	Say				1488.10
18.17.6	80 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1	1620.00	1620.00
9988	Carriage of materials and fixing charges	L.S.	18.85	2.00	37.70
	TOTAL				1657.70 W
	Add 1 % Water charges on "W"				16.58
	TOTAL				1674.28 X
	Add GST (multiplying factor 0.1405) on "X"				235.24
	TOTAL				1909.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				286.43
	Total				2195.94 Z
	Add Cess @ 1% on "Z"				21.96
	Cost of one no.				2217.90
	Say				2217.90
18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
18.18.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1922	H.P. or L.P. ball valve with polythene floats: 15 mm	each	1	210.00	210.00
9988	Carriage of materials and fixing charges	L.S.	21.58	2.00	43.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				253.16 W
	Add 1 % Water charges on "W"				2.53
	TOTAL				255.69 X
	Add GST (multiplying factor 0.1405) on "X"				35.92
	TOTAL				291.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.74
	Total				335.36 Z
	Add Cess @ 1% on "Z"				3.35
	Cost of one no.				338.71
	Say				338.70
18.18.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	1	235.00	235.00
9988	Carriage of materials and fixing charges	L.S.	26.91	2.00	53.82
	TOTAL				288.82 W
	Add 1 % Water charges on "W"				2.89
	TOTAL				291.71 X
	Add GST (multiplying factor 0.1405) on "X"				40.99
	TOTAL				332.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.90
	Total				382.60 Z
	Add Cess @ 1% on "Z"				3.83
	Cost of one no.				386.42
	Say				386.40
18.18.3	25 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	1	230.00	230.00
9988	Carriage of materials and fixing charges	L.S.	32.24	2.00	64.48
	TOTAL				294.48 W
	Add 1 % Water charges on "W"				2.94
	TOTAL				297.42 X
	Add GST (multiplying factor 0.1405) on "X"				41.79
	TOTAL				339.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.88
	Total				390.09 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				3.90
	Cost of one no.				394.00
	Say				394.00
18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
18.19.1	25 mm nominal bore				
18.19.1.1	Horizontal				
	Details of cost for one no.				
	MATERIAL				
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	1	330.00	330.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				357.04 W
	Add 1 % Water charges on "W"				3.57
	TOTAL				360.61 X
	Add GST (multiplying factor 0.1405) on "X"				50.67
	TOTAL				411.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.69
	Total				472.97 Z
	Add Cess @ 1% on "Z"				4.73
	Cost of one no.				477.70
	Say				477.70
18.19.1.2	Vertical				
	Details of cost for one no.				
	MATERIAL				
3080	Gunmetal non-return valve-vertical (screwed end) 25 mm dia	each	1	350.00	350.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				377.04 W
	Add 1 % Water charges on "W"				3.77
	TOTAL				380.81 X
	Add GST (multiplying factor 0.1405) on "X"				53.50
	TOTAL				434.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				65.15
	Total				499.46 Z
	Add Cess @ 1% on "Z"				4.99

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one no.				504.46
	Say				504.45
18.19.2	32 mm nominal bore				
18.19.2.1	Horizontal				
	Details of cost for one no.				
	MATERIAL				
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	1	450.00	450.00
9988	Carriage of materials and fixing charges	L.S.	14.82	2.00	29.64
	TOTAL				479.64 W
	Add 1 % Water charges on "W"				4.80
	TOTAL				484.44 X
	Add GST (multiplying factor 0.1405) on "X"				68.06
	TOTAL				552.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.87
	Total				635.37 Z
	Add Cess @ 1% on "Z"				6.35
	Cost of one no.				641.73
	Say				641.75
18.19.2.2	Vertical				
	Details of cost for one no.				
	MATERIAL				
3084	Gunmetal non-return valve-vertical (screwed end) 32 mm dia	each	1	500.00	500.00
9988	Carriage of materials and fixing charges	L.S.	14.82	2.00	29.64
	TOTAL				529.64 W
	Add 1 % Water charges on "W"				5.30
	TOTAL				534.94 X
	Add GST (multiplying factor 0.1405) on "X"				75.16
	TOTAL				610.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				91.51
	Total				701.61 Z
	Add Cess @ 1% on "Z"				7.02
	Cost of one no.				708.63
	Say				708.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.19.3	40 mm nominal bore				
18.19.3.1	Horizontal				
	Details of cost for one no.				
	MATERIAL				
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	1	560.00	560.00
9988	Carriage of materials and fixing charges	L.S.	16.12	2.00	32.24
	TOTAL				592.24 W
	Add 1 % Water charges on "W"				5.92
	TOTAL				598.16 X
	Add GST (multiplying factor 0.1405) on "X"				84.04
	TOTAL				682.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				102.33
	Total				784.53 Z
	Add Cess @ 1% on "Z"				7.85
	Cost of one no.				792.38
	Say				792.40
18.19.3.2	Vertical				
	Details of cost for one no.				
	MATERIAL				
3088	Gunmetal non-return valve-vertical (screwed end) 40 mm dia	each	1	700.00	700.00
9988	Carriage of materials and fixing charges	L.S.	16.12	2.00	32.24
	TOTAL				732.24 W
	Add 1 % Water charges on "W"				7.32
	TOTAL				739.56 X
	Add GST (multiplying factor 0.1405) on "X"				103.91
	TOTAL				843.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				126.52
	Total				969.99 Z
	Add Cess @ 1% on "Z"				9.70
	Cost of one no.				979.69
	Say				979.70
18.19.4	50 mm nominal bore				
18.19.4.1	Horizontal				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	1	820.00	820.00
9988	Carriage of materials and fixing charges	L.S.	17.55	2.00	35.10
	TOTAL				855.10 W
	Add 1 % Water charges on "W"				8.55
	TOTAL				863.65 X
	Add GST (multiplying factor 0.1405) on "X"				121.34
	TOTAL				984.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.75
	Total				1132.74 Z
	Add Cess @ 1% on "Z"				11.33
	Cost of one no.				1144.07
	Say				1144.05

18.19.4.2 Vertical

Details of cost for one no.

MATERIAL

3092	Gunmetal non-return valve-vertical (screwed end) 50 mm dia	each	1	900.00	900.00
9988	Carriage of materials and fixing charges	L.S.	17.55	2.00	35.10
	TOTAL				935.10 W
	Add 1 % Water charges on "W"				9.35
	TOTAL				944.45 X
	Add GST (multiplying factor 0.1405) on "X"				132.70
	TOTAL				1077.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.57
	Total				1238.72 Z
	Add Cess @ 1% on "Z"				12.39
	Cost of one no.				1251.11
	Say				1251.10

18.19.5 65 mm nominal bore

18.19.5.1 Horizontal

Details of cost for one no.

MATERIAL

1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1	1490.00	1490.00
9988	Carriage of materials and fixing charges	L.S.	18.85	2.00	37.70
	TOTAL				1527.70 W
	Add 1 % Water charges on "W"				15.28
	TOTAL				1542.98 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				216.79
	TOTAL				1759.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				263.96
	Total				2023.73 Z
	Add Cess @ 1% on "Z"				20.24
	Cost of one no.				2043.97
	Say				2043.95
18.19.5.2	Vertical				
	Details of cost for one no.				
	MATERIAL				
3096	Gunmetal non-return valve-vertical (screwed end) 65 mm dia	each	1	1500.00	1500.00
9988	Carriage of materials and fixing charges	L.S.	18.85	2.00	37.70
	TOTAL				1537.70 W
	Add 1 % Water charges on "W"				15.38
	TOTAL				1553.08 X
	Add GST (multiplying factor 0.1405) on "X"				218.21
	TOTAL				1771.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				265.69
	Total				2036.98 Z
	Add Cess @ 1% on "Z"				20.37
	Cost of one no.				2057.35
	Say				2057.35
18.19.6	80 mm nominal bore				
18.19.6.1	Horizontal				
	Details of cost for one no.				
	MATERIAL				
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	1	2120.00	2120.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				2160.56 W
	Add 1 % Water charges on "W"				21.61
	TOTAL				2182.17 X
	Add GST (multiplying factor 0.1405) on "X"				306.59
	TOTAL				2488.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				373.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2862.07 Z
	Add Cess @ 1% on "Z"				28.62
	Cost of one no.				2890.69
	Say				2890.70
18.19.6.2	Vertical				
	Details of cost for one no.				
	MATERIAL				
3300	Gunmetal non-return valve-vertical (screwed end) 80 mm dia	each	1	2500.00	2500.00
9988	Carriage of materials and fixing charges	L.S.	20.28	2.00	40.56
	TOTAL				2540.56 W
	Add 1 % Water charges on "W"				25.41
	TOTAL				2565.97 X
	Add GST (multiplying factor 0.1405) on "X"				360.52
	TOTAL				2926.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				438.97
	Total				3365.46 Z
	Add Cess @ 1% on "Z"				33.65
	Cost of one no.				3399.11
	Say				3399.10
18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
18.20.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1360	C.I.mouth, brass ferrule 15 mm dia	each	1	140.00	140.00
9988	Carriage of materials and fixing charges	L.S.	40.3	2.00	80.60
	TOTAL				220.60 W
	Add 1 % Water charges on "W"				2.21
	TOTAL				222.81 X
	Add GST (multiplying factor 0.1405) on "X"				31.30
	TOTAL				254.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.12
	Total				292.23 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				2.92
	Cost of one no.				295.15
	Say				295.15
18.20.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1361	C.I.mouth, brass ferrule 20 mm dia	each	1	160.00	160.00
9988	Carriage of materials and fixing charges	L.S.	47.19	2.00	94.38
	TOTAL				254.38 W
	Add 1 % Water charges on "W"				2.54
	TOTAL				256.92 X
	Add GST (multiplying factor 0.1405) on "X"				36.10
	TOTAL				293.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				43.95
	Total				336.97 Z
	Add Cess @ 1% on "Z"				3.37
	Cost of one no.				340.34
	Say				340.35
18.20.3	25 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1362	C.I.mouth, brass ferrule 25 mm dia	each	1	220.00	220.00
9988	Carriage of materials and fixing charges	L.S.	53.82	2.00	107.64
	TOTAL				327.64 W
	Add 1 % Water charges on "W"				3.28
	TOTAL				330.92 X
	Add GST (multiplying factor 0.1405) on "X"				46.49
	TOTAL				377.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.61
	Total				434.02 Z
	Add Cess @ 1% on "Z"				4.34
	Cost of one no.				438.36
	Say				438.35
18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.21.1	30 cm length				
18.21.1.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1687	Unplasticised P.V.C.connection pipe with brass union 30 cm long 15 mm bore	each	1	30.00	30.00
9988	Carriage of materials and fixing charges	L.S.	12.22	2.00	24.44
	TOTAL				54.44 W
	Add 1 % Water charges on "W"				0.54
	TOTAL				54.98 X
	Add GST (multiplying factor 0.1405) on "X"				7.73
	TOTAL				62.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				9.41
	Total				72.12 Z
	Add Cess @ 1% on "Z"				0.72
	Cost of one no.				72.84
	Say				72.85
18.21.1.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1688	Unplasticised P.V.C.connection pipe with brass union 30 cm long 20 mm bore	each	1	35.00	35.00
9988	Carriage of materials and fixing charges	L.S.	12.22	2.00	24.44
	TOTAL				59.44 W
	Add 1 % Water charges on "W"				0.59
	TOTAL				60.03 X
	Add GST (multiplying factor 0.1405) on "X"				8.43
	TOTAL				68.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.27
	Total				78.74 Z
	Add Cess @ 1% on "Z"				0.79
	Cost of one no.				79.53
	Say				79.55
18.21.2	45 cm length				
18.21.2.1	15 mm nominal bore				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1689	Unplasticised P.V.C.connection pipe with brass union 45 cm long 15 mm bore	each	1	35.00	35.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				62.04 W
	Add 1 % Water charges on "W"				0.62
	TOTAL				62.66 X
	Add GST (multiplying factor 0.1405) on "X"				8.80
	TOTAL				71.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.72
	Total				82.18 Z
	Add Cess @ 1% on "Z"				0.82
	Cost of one no.				83.01
	Say				83.00

18.21.2.2 20 mm nominal bore

Details of cost for one no.

MATERIAL

1690	Unplasticised P.V.C.connection pipe with brass union 45 cm long 20 mm bore	each	1	48.00	48.00
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				75.04 W
	Add 1 % Water charges on "W"				0.75
	TOTAL				75.79 X
	Add GST (multiplying factor 0.1405) on "X"				10.65
	TOTAL				86.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.97
	Total				99.40 Z
	Add Cess @ 1% on "Z"				0.99
	Cost of one no.				100.40
	Say				100.40

18.22 Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :

18.22.1 100 mm diameter

Details of cost for one no.

MATERIAL

1878	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	1	100.00	100.00
9988	Carriage of materials and fixing charges	L.S.	6.76	2.00	13.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				113.52 W
	Add 1 % Water charges on "W"				1.14
	TOTAL				114.66 X
	Add GST (multiplying factor 0.1405) on "X"				16.11
	TOTAL				130.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.61
	Total				150.38 Z
	Add Cess @ 1% on "Z"				1.50
	Cost of one no.				151.88
	Say				151.90
18.22.2	150 mm diameter				
	Details of cost for one no.				
	MATERIAL				
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	1	125.00	125.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				141.12 W
	Add 1 % Water charges on "W"				1.41
	TOTAL				142.53 X
	Add GST (multiplying factor 0.1405) on "X"				20.03
	TOTAL				162.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.38
	Total				186.94 Z
	Add Cess @ 1% on "Z"				1.87
	Cost of one no.				188.81
	Say				188.80
18.23	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe).				
	Details of cost for 5.14 quintal				
	10 m of 200 mm dia C.I. pipe class 'A'				
	Weight = (2x257) = 514kg = 5.14 quintal				
	LABOUR for laying pipe				
0019	Fitter (grade 1)	day	0.17	476.00	80.92
0020	Assistant Fitter or 2nd class Fitter	day	0.17	374.50	63.67

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	1.33	320.83	426.70
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				603.53 W
	Add 1 % Water charges on "W"				6.04
	TOTAL				609.56 X
	Add GST (multiplying factor 0.1405) on "X"				85.64
	TOTAL				695.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				104.28
	Total				799.49 Z
	Add Cess @ 1% on "Z"				7.99
	Cost of 5.14 quintal				807.48
	Cost of one quintal				157.10
	Say				157.10
18.24	Laying in position S&S or flanged C.I. special such as tees, bends, collars, tapers and caps etc.(excluding cost of specials).				
	Details of cost for 7 quintal 10 Nos. Tee 200x150mm				
	Weight = 70x10 = 700kg.				
	LABOUR for laying tee-				
0019	Fitter (grade 1)	day	0.93	476.00	442.68
0020	Assistant Fitter or 2nd class Fitter	day	0.62	374.50	232.19
0017	Beldar	day	2.48	320.83	795.66
9999	Sundries	L.S.	40.17	2.00	80.34
	TOTAL				1550.87 W
	Add 1 % Water charges on "W"				15.51
	TOTAL				1566.38 X
	Add GST (multiplying factor 0.1405) on "X"				220.08
	TOTAL				1786.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				267.97
	Total				2054.42 Z
	Add Cess @ 1% on "Z"				20.54
	Cost of 7 quintal				2074.97
	Cost of one quintal				296.42
	Say				296.40
18.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class):				
18.25.1	Up to 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	1	3600.00	3600.00
2309	Carriage of Cast iron fittings	tonne	0.10	94.34	9.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
18.24	Rate as per item No. 18.24 Of SH: Water Supply	quintal	1	296.40	296.40 A
	TOTAL				3905.84
	Add 1 % Water charges on "W-A"	3609.43			36.09
	TOTAL				3941.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	3645.53			512.20
	TOTAL				4454.13 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4157.72			623.66
	Total				5077.79 Z
	Add Cess @ 1% on "Z-A"	4781.38			47.81
	Cost of one quintal				5125.60
	Say				5125.60
18.25.2	Over 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	1	3700.00	3700.00
2309	Carriage of Cast iron fittings	tonne	0.10	94.34	9.43
	LABOUR				
	For laying				
18.24	Rate as per item No. 18.24 Of SH: Water Supply	quintal	1	296.40	296.40 A
	TOTAL				4005.84 W
	Add 1 % Water charges on "W-A"	3709.43			37.09
	TOTAL				4042.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	3746.53			526.39
	TOTAL				4569.32 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4272.92			640.94
	Total				5210.26 Z
	Add Cess @ 1% on "Z-A"	4913.85			49.14
	Cost of one quintal				5259.39
	Say				5259.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.26	Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :				
18.26.1	Up to 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
1468	Flanged C.I. standard specials upto 300 mm dia(heavy class)	quintal	1	5500.00	5500.00
2309	Carriage of Cast iron fittings	tonne	0.10	94.34	9.43
	LABOUR				
	For laying				
18.24	Rate as per item No. 18.24 of SH: Water Supply	quintal	1	296.40	296.40 A
	TOTAL				5805.84 W
	Add 1 % Water charges on "W-A"	5509.43			55.09
	TOTAL				5860.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	5564.53			781.82
	TOTAL				6642.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6346.34			951.95
	Total				7594.70 Z
	Add Cess @ 1% on "Z-A"	7298.30			72.98
	Cost of one quintal				7667.68
	Say				7667.70
18.26.2	Over 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
1470	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	1	5500.00	5500.00
2309	Carriage of Cast iron fittings	tonne	0.10	94.34	9.43
	LABOUR				
	For laying				
18.24	Rate as per item No. 18.24 of SH: Water Supply	quintal	1	296.40	296.40 A
	TOTAL				5805.84 W
	Add 1 % Water charges on "W-A"	5509.43			55.09
	TOTAL				5860.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	5564.53			781.82
	TOTAL				6642.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6346.34			951.95
	Total				7594.70 Z
	Add Cess @ 1% on "Z-A"	7298.30			72.98
	Cost of one quintal				7667.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				7667.70
18.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :				
18.27.1	100 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	100mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 19.820 Kg				
	Weight of 10m pipes 19.820x10 = 198.20 Kg				
7697	S&S Centrifugally (Spun) C.I. Pipe class	metre	10.00	857.00	8570.00
	LA 100mm dia				
2319	Carriage of Spun iron S & S pipes	100 metre	0.10	231.98	23.20
	100 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	1.98	157.10	311.05 A
	TOTAL				8904.25 W
	Add 1 % Water charges on "W-A"	8593.20			85.93
	TOTAL				8990.18 X
	Add GST (multiplying factor 0.1405) on "X-A"	8679.13			1219.42
	TOTAL				10209.60 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9898.55			1484.78
	Total				11694.38 Z
	Add Cess @ 1% on "Z-A"	11383.33			113.83
	Cost of 10 metre				11808.22
	Cost of one metre				1180.82
	Say				1180.80
18.27.2	125 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	125mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 25.820 Kg				
	Weight of 10m pipes 25.820x10 = 258.20 Kg				
7698	S&S Centrifugally (Spun) C.I. Pipe class	metre	10.00	1067.00	10670.00
	LA 125mm dia				
2320	Carriage of Spun iron S & S pipes	100	0.10	309.87	30.99
	125 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	2.58	157.10	405.31 A
	TOTAL				11106.30 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"		10700.99		107.01
	TOTAL				11213.31 X
	Add GST (multiplying factor 0.1405) on "X-A"		10808.00		1518.52
	TOTAL				12731.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		12326.52		1848.98
	Total				14580.81 Z
	Add Cess @ 1% on "Z-A"		14175.50		141.75
	Cost of 10 metre				14722.57
	Cost of one metre				1472.26
	Say				1472.25
18.27.3	150 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	150mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 32.180 Kg				
	Weight of 10m pipes 32.180x10 = 321.80 Kg				
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150mm dia	metre	10.00	1286.00	12860.00
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	0.10	386.63	38.66
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	3.22	157.10	505.86 A
	TOTAL				13404.52 W
	Add 1 % Water charges on "W-A"		12898.66		128.99
	TOTAL				13533.51 X
	Add GST (multiplying factor 0.1405) on "X-A"		13027.65		1830.38
	TOTAL				15363.89 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		14858.03		2228.71
	Total				17592.60 Z
	Add Cess @ 1% on "Z-A"		17086.74		170.87
	Cost of 10 metre				17763.46
	Cost of one metre				1776.35
	Say				1776.35

18.27.4 200 mm dia pipe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre				
	MATERIAL				
	200mm dia. spun iron pipes (in 5.5 m lengths) Weight of 1 m pipes = 47.090 Kg Weight of 10m pipes 47.090x10 = 470.90 Kg				
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	metre	10.00	2190.00	21900.00
2322	Carriage of Spun iron S & S pipes	100 metre	0.10	628.92	62.89
	200 mm dia LABOUR for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	4.71	157.10	739.93 A
	TOTAL				22702.82 W
	Add 1 % Water charges on "W-A"	21962.89			219.63
	TOTAL				22922.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	22182.52			3116.64
	TOTAL				26039.10 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	25299.16			3794.87
	Total				29833.97 Z
	Add Cess @ 1% on "Z-A"	29094.04			290.94
	Cost of 10 metre				30124.91
	Cost of one metre				3012.49
	Say				3012.50
18.27.5	250 mm dia pipe				
	Details of cost for 10 metre				
	MATERIALS				
	250mm dia. spun iron pipes (in 5.5 m lengths) Weight of 1 m pipes = 63.450 Kg Weight of 10m pipes 63.450x10 = 634.50 Kg				
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	metre	10.00	2857.00	28570.00
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	0.10	893.73	89.37
	LABOUR for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	6.35	157.10	997.57 A
	TOTAL				29656.95 W
	Add 1 % Water charges on "W-A"	28659.37			286.59
	TOTAL				29943.54 X
	Add GST (multiplying factor 0.1405) on "X-A"	28945.97			4066.91
	TOTAL				34010.45 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"	33012.87			4951.93
	Total				38962.38 Z
	Add Cess @ 1% on "Z-A"	37964.81			379.65
	Cost of 10 metre				39342.03
	Cost of one metre				3934.20
	Say				3934.20
18.27.6	300 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	300mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 81.820 Kg				
	Weight of 10m pipes 81.820x10 = 818.20 Kg				
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	metre	10.00	3857.00	38570.00
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	0.10	1104.66	110.47
	LABOUR for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	8.18	157.10	1285.06 A
	TOTAL				39965.53 W
	Add 1 % Water charges on "W-A"	38680.47			386.80
	TOTAL				40352.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	39067.27			5488.95
	TOTAL				45841.28 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	44556.22			6683.43
	Total				52524.72 Z
	Add Cess @ 1% on "Z-A"	51239.66			512.40
	Cost of 10 metre				53037.11
	Cost of one metre				5303.71
	Say				5303.70
18.27.7	350 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	350mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 103.10 Kg				
	Weight of 10m pipes 103.10x10 = 1031.00 Kg				
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	10.00	4619.00	46190.00
2325	Carriage of Spun iron S & S pipes	100 metre	0.10	1546.52	154.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	350 mm dia					
	Labour for laying					
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	10.31	157.10	1619.68	A
	TOTAL				47964.33	W
	Add 1 % Water charges on "W-A"		46344.65		463.45	
	TOTAL				48427.78	X
	Add GST (multiplying factor 0.1405) on "X-A"		46808.10		6576.54	
	TOTAL				55004.32	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		53384.64		8007.70	
	Total				63012.01	Z
	Add Cess @ 1% on "Z-A"		61392.33		613.92	
	Cost of 10 metre				63625.94	
	Cost of one metre				6362.59	
	Say				6362.60	
18.27.8	400 mm dia pipe					
	Details of cost for 10 metre					
	MATERIAL					
	400mm dia. spun iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 125.45 Kg					
	Weight of 10m pipes 125.45x10 = 1254.50 Kg					
7704	S&S Centrifugally (Spun) C.I. Pipe class	metre	10.00	6095.00	60950.00	
	LA 400mm dia					
2326	Carriage of Spun iron S & S pipes	100 metre	0.10	2108.89	210.89	
	400 mm dia					
	LABOUR for laying					
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	12.55	157.10	1971.58	A
	TOTAL				63132.47	W
	Add 1 % Water charges on "W-A"		61160.89		611.61	
	TOTAL				63744.08	X
	Add GST (multiplying factor 0.1405) on "X-A"		61772.50		8679.04	
	TOTAL				72423.11	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		70451.53		10567.73	
	Total				82990.85	Z
	Add Cess @ 1% on "Z-A"		81019.26		810.19	
	Cost of 10 metre				83801.04	
	Cost of one metre				8380.10	
	Say				8380.10	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.27.9	450 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	450mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 151.270 Kg				
	Weight of 10m pipes 151.270x10 = 1512.70 Kg				
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	metre	10.00	7381.00	73810.00
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	0.10	2577.54	257.75
18.23	LABOUR for laying Rate same as per item no 18.23 of SH: Water Supply	quintal	15.13	157.10	2376.89 A
	TOTAL				76444.65 W
	Add 1 % Water charges on "W-A"	74067.75			740.68
	TOTAL				77185.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	74808.43			10510.58
	TOTAL				87695.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	85319.02			12797.85
	Total				100493.76 Z
	Add Cess @ 1% on "Z-A"	98116.87			981.17
	Cost of 10 metre				101474.93
	Cost of one metre				10147.49
	Say				10147.50
18.27.10	500 mm dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
	500mm dia. spun iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 177.090 Kg				
	Weight of 10m pipes 177.090x10 = 1770.90 Kg				
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	metre	10.00	8571.00	85710.00
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	0.10	2577.54	257.75
18.23	LABOUR for laying Rate same as per item no 18.23 of SH: Water Supply	quintal	17.71	157.10	2782.24 A
	TOTAL				88749.99 W
	Add 1 % Water charges on "W-A"	85967.75			859.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				89609.67	X
	Add GST (multiplying factor 0.1405) on "X-A"		86827.43		12199.25	
	TOTAL				101808.93	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		99026.69		14854.00	
	Total				116662.93	Z
	Add Cess @ 1% on "Z-A"		113880.69		1138.81	
	Cost of 10 metre				117801.74	
	Cost of one metre				11780.17	
	Say				11780.15	
18.27.11	600 mm dia pipe					
	Details of cost for 10 metre					
	MATERIAL					
	600mm dia. spun iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 236.000 Kg					
	Weight of 10m pipes 236.000x10					
	= 2360.00 Kg					
7707	S&S Centrifugally (Spun) C.I. Pipe class	metre	10.00	11995.00	119950.00	
	LA 600mm dia					
2329	Carriage of Spun iron S & S pipes	100 metre	0.10	3866.30	386.63	
	600mm dia					
	LABOUR for laying					
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	23.60	157.10	3707.56	A
	TOTAL				124044.19	W
	Add 1 % Water charges on "W-A"		120336.63		1203.37	
	TOTAL				125247.56	X
	Add GST (multiplying factor 0.1405) on "X-A"		121540.00		17076.37	
	TOTAL				142323.93	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		138616.37		20792.45	
	Total				163116.38	Z
	Add Cess @ 1% on "Z-A"		159408.82		1594.09	
	Cost of 10 metre				164710.47	
	Cost of one metre				16471.05	
	Say				16471.05	
18.28	Providing lead caulked joints to spun iron or C.I. pipes and specials, including testing of joints but excluding the cost of pig lead :					
18.28.1	100 mm diameter pipe					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	1.70	50.00	85.00
	0.17x 10 =1.70 kg				
761	Fuel wood	quintal	0.28	500.00	140.00
771	Kerosene oil	litre	0.38	50.00	19.00
9999	Sundries	L.S.	6.76	2.00	13.52
9977	Carriage of materials	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0020	Assistant Fitter or 2nd class Fitter	day	1.00	374.50	374.50
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				1760.34 W
	Add 1 % Water charges on "W"				17.60
	TOTAL				1777.94 X
	Add GST (multiplying factor 0.1405) on "X"				249.80
	TOTAL				2027.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				304.16
	Total				2331.91 Z
	Add Cess @ 1% on "Z"				23.32
	Cost of 10 joints				2355.23
	Cost of one joint				235.52
	Say				235.50
18.28.2	125 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	2.00	50.00	100.00
	0.20x10=2.00 kg				
761	Fuel wood	quintal	0.37	500.00	185.00
771	Kerosene oil	litre	0.76	50.00	38.00
9999	Sundries	L.S.	9.49	2.00	18.98
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	LABOUR				
0019	Fitter (grade 1)	day	1.50	476.00	714.00
0020	Assistant Fitter or 2nd class Fitter	day	1.50	374.50	561.75
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				2599.20 W
	Add 1 % Water charges on "W"				25.99
	TOTAL				2625.19 X
	Add GST (multiplying factor 0.1405) on "X"				368.84
	TOTAL				2994.03 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				449.10
	Total				3443.14 Z
	Add Cess @ 1% on "Z"				34.43
	Cost of 10 joints				3477.57
	Cost of one joint				347.76
	Say				347.75
18.28.3	150 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	2.30	50.00	115.00
	0.23x10=2.30 kg				
761	Fuel wood	quintal	0.42	500.00	210.00
771	Kerosene oil	litre	0.76	50.00	38.00
9999	Sundries	L.S.	10.79	2.00	21.58
9977	Carriage of materials	L.S.	10.79	2.00	21.58
	LABOUR				
0019	Fitter (grade 1)	day	1.50	476.00	714.00
0020	Assistant Fitter or 2nd class Fitter	day	1.50	374.50	561.75
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				2644.40 W
	Add 1 % Water charges on "W"				26.44
	TOTAL				2670.84 X
	Add GST (multiplying factor 0.1405) on "X"				375.25
	TOTAL				3046.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				456.91
	Total				3503.01 Z
	Add Cess @ 1% on "Z"				35.03
	Cost of 10 joints				3538.04
	Cost of one joint				353.80
	Say				353.80
18.28.4	200 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	3.00	50.00	150.00
	0.3x10=3.00 kg				
761	Fuel wood	quintal	0.56	500.00	280.00
771	Kerosene oil	litre	0.76	50.00	38.00
9999	Sundries	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0020	Assistant Fitter or 2nd class Fitter	day	2.00	374.50	749.00
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				3506.40 W
	Add 1 % Water charges on "W"				35.06
	TOTAL				3541.46 X
	Add GST (multiplying factor 0.1405) on "X"				497.58
	TOTAL				4039.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				605.86
	Total				4644.90 Z
	Add Cess @ 1% on "Z"				46.45
	Cost of 10 joints				4691.34
	Cost of one joint				469.13
	Say				469.15
18.28.5	250 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	4.00	50.00	200.00
	0.4x10=4 00 kg				
761	Fuel wood	quintal	0.65	500.00	325.00
771	Kerosene oil	litre	1.14	50.00	57.00
9999	Sundries	L.S.	17.55	2.00	35.10
9977	Carriage of materials	L.S.	17.55	2.00	35.10
	LABOUR				
0019	Fitter (grade 1)	day	2.50	476.00	1190.00
0020	Assistant Fitter or 2nd class Fitter	day	2.50	374.50	936.25
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				4382.60 W
	Add 1 % Water charges on "W"				43.83
	TOTAL				4426.43 X
	Add GST (multiplying factor 0.1405) on "X"				621.91
	TOTAL				5048.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				757.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				5805.59 Z
	Add Cess @ 1% on "Z"				58.06
	Cost of 10 joints				5863.65
	Cost of one joint				586.36
	Say				586.35
18.28.6	300 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	5.40	50.00	270.00
	0.54x10 =5.40 kg				
761	Fuel wood	quintal	0.75	500.00	375.00
771	Kerosene oil	litre	1.52	50.00	76.00
9999	Sundries	L.S.	20.28	2.00	40.56
9977	Carriage of materials	L.S.	20.28	2.00	40.56
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0020	Assistant Fitter or 2nd class Fitter	day	3.00	374.50	1123.50
0017	Beldar	day	6.00	320.83	1924.98
	TOTAL				5278.60 W
	Add 1 % Water charges on "W"				52.79
	TOTAL				5331.39 X
	Add GST (multiplying factor 0.1405) on "X"				749.06
	TOTAL				6080.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				912.07
	Total				6992.51 Z
	Add Cess @ 1% on "Z"				69.93
	Cost of 10 joints				7062.44
	Cost of one joint				706.24
	Say				706.25
18.28.7	350 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	6.20	50.00	310.00
	0.62x10=6.20 kg				
761	Fuel wood	quintal	0.93	500.00	465.00
771	Kerosene oil	litre	1.70	50.00	85.00
9999	Sundries	L.S.	24.18	2.00	48.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of materials	L.S.	24.18	2.00	48.36
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0020	Assistant Fitter or 2nd class Fitter	day	3.00	374.50	1123.50
0017	Beldar	day	6.00	320.83	1924.98
	TOTAL				5433.20 W
	Add 1 % Water charges on "W"				54.33
	TOTAL				5487.53 X
	Add GST (multiplying factor 0.1405) on "X"				771.00
	TOTAL				6258.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				938.78
	Total				7197.31 Z
	Add Cess @ 1% on "Z"				71.97
	Cost of 10 joints				7269.28
	Cost of one joint				726.93
	Say				726.95
18.28.8	400 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	7.40	50.00	370.00
761	Fuel wood	quintal	1.12	500.00	560.00
	0.74x10=7.40 kg				
771	Kerosene oil	litre	1.70	50.00	85.00
9999	Sundries	L.S.	26.91	2.00	53.82
9977	Carriage of materials	L.S.	26.91	2.00	53.82
	LABOUR				
0019	Fitter (grade 1)	day	4.00	476.00	1904.00
0020	Assistant Fitter or 2nd class Fitter	day	4.00	374.50	1498.00
0017	Beldar	day	8.00	320.83	2566.64
	TOTAL				7091.28 W
	Add 1 % Water charges on "W"				70.91
	TOTAL				7162.19 X
	Add GST (multiplying factor 0.1405) on "X"				1006.29
	TOTAL				8168.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				1225.27
	Total				9393.75 Z
	Add Cess @ 1% on "Z"				93.94
	Cost of 10 joints				9487.69

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one joint				948.77
	Say				948.75
18.28.9	450 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	7.90	50.00	395.00
	0.79x10=7.90 kg				
761	Fuel wood	quintal	1.21	500.00	605.00
771	Kerosene oil	litre	2.27	50.00	113.50
9999	Sundries	L.S.	31.07	2.00	62.14
9977	Carriage of materials	L.S.	31.07	2.00	62.14
	LABOUR				
0019	Fitter (grade 1)	day	4.50	476.00	2142.00
0020	Assistant Fitter or 2nd class Fitter	day	4.50	374.50	1685.25
0017	Beldar	day	9.00	320.83	2887.47
	TOTAL				7952.50 W
	Add 1 % Water charges on "W"				79.53
	TOTAL				8032.03 X
	Add GST (multiplying factor 0.1405) on "X"				1128.50
	TOTAL				9160.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				1374.08
	Total				10534.60 Z
	Add Cess @ 1% on "Z"				105.35
	Cost of 10 joints				10639.95
	Cost of one joint				1063.99
	Say				1064.00
18.28.10	500 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	8.50	50.00	425.00
	0.85x10=8.50 kg				
761	Fuel wood	quintal	1.31	500.00	655.00
771	Kerosene oil	litre	2.27	50.00	113.50
9999	Sundries	L.S.	33.67	2.00	67.34
9977	Carriage of materials	L.S.	33.67	2.00	67.34
	LABOUR				
0019	Fitter (grade 1)	day	4.75	476.00	2261.00
0020	Assistant Fitter or 2nd class Fitter	day	4.75	374.50	1778.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	9.50	320.83	3047.89
	TOTAL				8415.94 W
	Add 1 % Water charges on "W"				84.16
	TOTAL				8500.10 X
	Add GST (multiplying factor 0.1405) on "X"				1194.26
	TOTAL				9694.36 Y
	Add 15 % Contractor's profit and overheads on "Y"				1454.15
	Total				11148.52 Z
	Add Cess @ 1% on "Z"				111.49
	Cost of 10 joints				11260.00
	Cost of one joint				1126.00
	Say				1126.00
18.28.11	600 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1881	Spun yarn	kilogram	10.20	50.00	510.00
	1.02x10=10.20 kg				
761	Fuel wood	quintal	1.68	500.00	840.00
771	Kerosene oil	litre	2.84	50.00	142.00
9999	Sundries	L.S.	40.30	2.00	80.60
9977	Carriage of materials	L.S.	40.30	2.00	80.60
	LABOUR				
0019	Fitter (grade 1)	day	6.50	476.00	3094.00
0020	Assistant Fitter or 2nd class Fitter	day	6.50	374.50	2434.25
0017	Beldar	day	13.00	320.83	4170.79
	TOTAL				11352.24 W
	Add 1 % Water charges on "W"				113.52
	TOTAL				11465.76 X
	Add GST (multiplying factor 0.1405) on "X"				1610.94
	TOTAL				13076.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				1961.51
	Total				15038.21 Z
	Add Cess @ 1% on "Z"				150.38
	Cost of 10 joints				15188.59
	Cost of one joint				1518.86
	Say				1518.85

18.29 Supplying pig lead at site of work.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal				
	MATERIAL				
1397	Pig lead	kilogram	100	176.00	17600.00
2341	Carriage of Pig lead	tonne	0.10	94.34	9.43
	TOTAL				17609.43 W
	Add 1 % Water charges on "W"				176.09
	TOTAL				17785.53 X
	Add GST (multiplying factor 0.1405) on "X"				2498.87
	TOTAL				20284.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				3042.66
	Total				23327.05 Z
	Add Cess @ 1% on "Z"				233.27
	Cost of one quintal				23560.32
	Say				23560.30
18.30	Providing flanged joints to double flanged C.I./ D.I. pipes and specials, including testing of joints :				
18.30.1	80 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1373	Rubber insertions for 80 mm dia pipe joints	each	10.00	16.00	160.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	40.00	11.00	440.00
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0020	Assistant Fitter or 2nd class Fitter	day	0.15	374.50	56.18
0017	Beldar	day	0.80	320.83	256.66
	TOTAL				989.70 W
	Add 1 % Water charges on "W"				9.90
	TOTAL				999.60 X
	Add GST (multiplying factor 0.1405) on "X"				140.44
	TOTAL				1140.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				171.01
	Total				1311.05 Z
	Add Cess @ 1% on "Z"				13.11
	Cost for 10 joints				1324.16
	Cost for one joint				132.42
	Say				132.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.30.2	100 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1374	Rubber insertions for 100 mm dia pipe joints	each	10.00	18.00	180.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	80.00	11.00	880.00
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0020	Assistant Fitter or 2nd class Fitter	day	0.25	374.50	93.63
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				1601.78 W
	Add 1 % Water charges on "W"				16.02
	TOTAL				1617.79 X
	Add GST (multiplying factor 0.1405) on "X"				227.30
	TOTAL				1845.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				276.76
	Total				2121.86 Z
	Add Cess @ 1% on "Z"				21.22
	Cost for 10 joints				2143.08
	Cost for one joint				214.31
	Say				214.30
18.30.3	125 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1375	Rubber insertions for 125 mm dia pipe joints	each	10.00	20.00	200.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	80.00	12.00	960.00
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0020	Assistant Fitter or 2nd class Fitter	day	0.25	374.50	93.63
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				1701.78 W
	Add 1 % Water charges on "W"				17.02
	TOTAL				1718.79 X
	Add GST (multiplying factor 0.1405) on "X"				241.49
	TOTAL				1960.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				294.04
	Total				2254.33 Z
	Add Cess @ 1% on "Z"				22.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 10 joints				2276.87
	Cost for one joint				227.69
	Say				227.70
18.30.4	150 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1376	Rubber insertions for 150 mm dia pipe joints	each	10.00	20.00	200.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	80.00	15.00	1200.00
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0020	Assistant Fitter or 2nd class Fitter	day	0.30	374.50	112.35
0017	Beldar	day	1.10	320.83	352.91
	TOTAL				2016.38 W
	Add 1 % Water charges on "W"				20.16
	TOTAL				2036.55 X
	Add GST (multiplying factor 0.1405) on "X"				286.13
	TOTAL				2322.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				348.40
	Total				2671.08 Z
	Add Cess @ 1% on "Z"				26.71
	Cost for 10 joints				2697.79
	Cost for one joint				269.78
	Say				269.80
18.30.5	200 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1377	Rubber insertions for 200 mm dia pipe joints	each	10.00	25.00	250.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	80.00	17.00	1360.00
9977	Carriage of materials	L.S.	4.16	2.00	8.32
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0020	Assistant Fitter or 2nd class Fitter	day	0.30	374.50	112.35
0017	Beldar	day	1.10	320.83	352.91
	TOTAL				2226.38 W
	Add 1 % Water charges on "W"				22.26
	TOTAL				2248.65 X
	Add GST (multiplying factor 0.1405) on "X"				315.93
	TOTAL				2564.58 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				384.69
	Total				2949.27 Z
	Add Cess @ 1% on "Z"				29.49
	Cost for 10 joints				2978.76
	Cost for one joint				297.88
	Say				297.90
18.30.6	250 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1378	Rubber insertions for 250 mm dia pipe joints	each	10.00	40.00	400.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	120.00	16.00	1920.00
9977	Carriage of materials	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.40	476.00	190.40
0020	Assistant Fitter or 2nd class Fitter	day	0.40	374.50	149.80
0017	Beldar	day	1.30	320.83	417.08
	TOTAL				3087.94 W
	Add 1 % Water charges on "W"				30.88
	TOTAL				3118.82 X
	Add GST (multiplying factor 0.1405) on "X"				438.19
	TOTAL				3557.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				533.55
	Total				4090.56 Z
	Add Cess @ 1% on "Z"				40.91
	Cost for 10 joints				4131.47
	Cost for one joint				413.15
	Say				413.15
18.30.7	300 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1379	Rubber insertions for 300 mm dia pipe joints	each	10.00	45.00	450.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	120.00	16.00	1920.00
9977	Carriage of materials	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.40	476.00	190.40
0020	Assistant Fitter or 2nd class Fitter	day	0.40	374.50	149.80
0017	Beldar	day	1.30	320.83	417.08
	TOTAL				3137.94 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				31.38
	TOTAL				3169.32 X
	Add GST (multiplying factor 0.1405) on "X"				445.29
	TOTAL				3614.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				542.19
	Total				4156.80 Z
	Add Cess @ 1% on "Z"				41.57
	Cost for 10 joints				4198.37
	Cost for one joint				419.84
	Say				419.85
18.30.8	350 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1380	Rubber insertions for 350 mm dia pipe joints	each	10.00	50.00	500.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	160.00	18.00	2880.00
9977	Carriage of materials	L.S.	5.33	2.00	10.66
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0020	Assistant Fitter or 2nd class Fitter	day	0.50	374.50	187.25
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				4297.16 W
	Add 1 % Water charges on "W"				42.97
	TOTAL				4340.13 X
	Add GST (multiplying factor 0.1405) on "X"				609.79
	TOTAL				4949.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				742.49
	Total				5692.40 Z
	Add Cess @ 1% on "Z"				56.92
	Cost for 10 joints				5749.33
	Cost for one joint				574.93
	Say				574.95
18.30.9	400 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1381	Rubber insertions for 400 mm dia pipe joints	each	10.00	73.00	730.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	160.00	28.00	4480.00
9977	Carriage of materials	L.S.	8.06	2.00	16.12
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0020	Assistant Fitter or 2nd class Fitter	day	0.50	374.50	187.25
0017	Beldar	day	1.50	320.83	481.25
	TOTAL				6132.62 W
	Add 1 % Water charges on "W"				61.33
	TOTAL				6193.94 X
	Add GST (multiplying factor 0.1405) on "X"				870.25
	TOTAL				7064.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				1059.63
	Total				8123.82 Z
	Add Cess @ 1% on "Z"				81.24
	Cost for 10 joints				8205.06
	Cost for one joint				820.51
	Say				820.50
18.30.10	450 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1382	Rubber insertions for 450 mm dia pipe joints	each	10.00	92.00	920.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	200.00	28.00	5600.00
9977	Carriage of materials	L.S.	8.06	2.00	16.12
	LABOUR				
0019	Fitter (grade 1)	day	0.60	476.00	285.60
0020	Assistant Fitter or 2nd class Fitter	day	0.60	374.50	224.70
0017	Beldar	day	1.70	320.83	545.41
	TOTAL				7591.83 W
	Add 1 % Water charges on "W"				75.92
	TOTAL				7667.75 X
	Add GST (multiplying factor 0.1405) on "X"				1077.32
	TOTAL				8745.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				1311.76
	Total				10056.83 Z
	Add Cess @ 1% on "Z"				100.57
	Cost for 10 joints				10157.40
	Cost for one joint				1015.74
	Say				1015.75
18.30.11	500 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1383	Rubber insertions for 500 mm dia pipe joints	each	10.00	110.00	1100.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1963	Bolts and nuts 24 mm dia 90 mm long	each	200.00	32.00	6400.00
9977	Carriage of materials	L.S.	8.06	2.00	16.12
	LABOUR				
0019	Fitter (grade 1)	day	0.65	476.00	309.40
0020	Assistant Fitter or 2nd class Fitter	day	0.65	374.50	243.43
0017	Beldar	day	1.80	320.83	577.49
	TOTAL				8646.44 W
	Add 1 % Water charges on "W"				86.46
	TOTAL				8732.90 X
	Add GST (multiplying factor 0.1405) on "X"				1226.97
	TOTAL				9959.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				1493.98
	Total				11453.86 Z
	Add Cess @ 1% on "Z"				114.54
	Cost for 10 joints				11568.40
	Cost for one joint				1156.84
	Say				1156.85
18.30.12	600 mm diameter pipe				
	Details of cost for 10 joints				
	MATERIAL				
1384	Rubber insertions for 600 mm dia pipe joints	each	10.00	125.00	1250.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	200.00	38.00	7600.00
9977	Carriage of materials	L.S.	9.49	2.00	18.98
	LABOUR				
0019	Fitter (grade 1)	day	0.75	476.00	357.00
0020	Assistant Fitter or 2nd class Fitter	day	0.75	374.50	280.88
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				10148.52 W
	Add 1 % Water charges on "W"				101.49
	TOTAL				10250.00 X
	Add GST (multiplying factor 0.1405) on "X"				1440.13
	TOTAL				11690.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				1753.52
	Total				13443.64 Z
	Add Cess @ 1% on "Z"				134.44
	Cost for 10 joints				13578.08
	Cost for one joint				1357.81
	Say				1357.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
18.31.1	100 mm diameter				
18.31.1.1	Class I				
	Details of cost for 10 sluice valves				
	MATERIAL				
1940	C.I.sluice valve (with caps) class I : 100 mm dia	each	10.00	2410.00	24100.00
	Carriage of sluice valves wt.= 44.3x10=443kg= 0.443t. say 0.44t				
2309	Carriage of Cast iron fittings	tonne	0.44	94.34	41.51
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water Supply)	quintal	4.43	296.40	1313.07 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.2	(Rate as per item No.18.30.2 Of SH: Water Supply)	each	20.00	214.30	4285.95 A
	TOTAL				29740.53 W
	Add 1 % Water charges on "W-A"	24141.51			241.42
	TOTAL				29981.94 X
	Add GST (multiplying factor 0.1405) on "X-A"	24382.92			3425.80
	TOTAL				33407.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	27808.72			4171.31
	Total				37579.05 Z
	Add Cess @ 1% on "Z-A"	31980.03			319.80
	Cost of 10 valves				37898.85
	Cost of 1 valve				3789.89
	Say				3789.90
18.31.1.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3311	C.I.sluice valve (with caps) class II : 100 mm dia	each	10.00	2700.00	27000.00
	Carriage of sluice valves 56.3x10=563kg= 0.563t=0.56t				
2309	Carriage of Cast iron fittings	tonne	0.56	94.34	52.83
	LABOUR for laying sluice valve				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.24	(Rate as per item No. 18.24 Of SH: Water Supply) Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.	quintal	5.63	296.40	1668.75 A
18.30.2	(Rate as per item No.18.30.2 Of SH: Water Supply)	each	20.00	214.30	4285.95 A
	TOTAL				33007.53 W
	Add 1 % Water charges on "W-A"	27052.83		270.53	
	TOTAL				33278.06 X
	Add GST (multiplying factor 0.1405) on "X-A"	27323.36		3838.93	
	TOTAL				37116.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31162.29		4674.34	
	Total				41791.34 Z
	Add Cess @ 1% on "Z-A"	35836.63		358.37	
	Cost of 10 valves				42149.70
	Cost of 1 valve				4214.97
	Say				4214.95
18.31.2	125 mm diameter				
18.31.2.1	Class I				
	Details of cost for 10 sluice valves				
	MATERIAL				
1941	C.I.sluice valve (with caps) class I : 125 mm dia	each	10.00	2600.00	26000.00
	Carriage of sluice valves wt. = 56.3x10=563kg = 0.563t. say 0.56t				
2309	Carriage of Cast iron fittings	tonne	0.56	94.34	52.83
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water Supply) Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.	quintal	5.63	296.40	1668.75 A
18.30.3	(Rate as per item No.18.30.3 Of SH: Water Supply)	each	20.00	227.70	4553.94 A
	TOTAL				32275.52 W
	Add 1 % Water charges on "W-A"	26052.83		260.53	
	TOTAL				32536.05 X
	Add GST (multiplying factor 0.1405) on "X-A"	26313.36		3697.03	
	TOTAL				36233.07 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	30010.38		4501.56	
	Total				40734.63 Z
	Add Cess @ 1% on "Z-A"	34511.94		345.12	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 valves				41079.75
	Cost of 1 valve				4107.98
	Say				4108.00
18.31.2.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3314	C.I.sluice valve (with caps) class II : 125 mm dia	each	10.00	3200.00	32000.00
	Carriage of sluice valves wt. = 68.3x10=683kg = 0.68t say 0.68t				
2309	Carriage of Cast iron fittings	tonne	0.68	94.34	64.15
	LABOUR for laying sluice valve (Rate as per item No. 18.24 Of SH: Water Supply)	quintal	6.83	296.40	2024.44 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.3 Of SH: Water Supply)	each	20.00	227.70	4553.94 A
18.30.3					
	TOTAL				38642.52 W
	Add 1 % Water charges on "W-A"	32064.15			320.64
	TOTAL				38963.17 X
	Add GST (multiplying factor 0.1405) on "X-A"	32384.79			4550.06
	TOTAL				43513.23 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	36934.85			5540.23
	Total				49053.46 Z
	Add Cess @ 1% on "Z-A"	42475.08			424.75
	Cost of 10 valves				49478.21
	Cost of 1 valve				4947.82
	Say				4947.80
18.31.3	150 mm diameter				
18.31.3.1	Class I				
	Details of cost for 10 sluice valves				
	MATERIAL				
1942	C.I.sluice valve (with caps) class I : 150 mm dia	each	10.00	3600.00	36000.00
	Carriage of sluice valves wt. = 72.5x10=725kg = 0.725t. say 0.72t				
2309	Carriage of Cast iron fittings	tonne	0.72	94.34	67.92
	LABOUR for laying sluice valve (Rate as per item No. 18.24 Of SH: Water Supply)	quintal	7.25	296.40	2148.93 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.30.4	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.4 Of SH: Water Supply)	each	20.00	269.80	5395.99 A
	TOTAL				43612.84 W
	Add 1 % Water charges on "W-A"		36067.92		360.68
	TOTAL				43973.52 X
	Add GST (multiplying factor 0.1405) on "X-A"		36428.60		5118.22
	TOTAL				49091.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		41546.82		6232.02
	Total				55323.76 Z
	Add Cess @ 1% on "Z-A"		47778.84		477.79
	Cost of 10 valves				55801.55
	Cost of 1 valve				5580.15
	Say				5580.15
18.31.3.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	10.00	4000.00	40000.00
	Carriage of sluice valves wt. = 86.5x10=865kg = 0.865t. say 0.865t				
2309	Carriage of Cast iron fittings	tonne	0.865	94.34	81.60
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water Supply)	quintal	8.650	296.40	2563.89 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.4	(Rate as per item No.18.30.4 Of SH: Water Supply)	each	20.00	269.80	5396.00 A
	TOTAL				48041.49
	Add 1 % Water charges on "W-A"		40081.60		400.82
	TOTAL				48442.31 X
	Add GST (multiplying factor 0.1405) on "X-A"		40482.42		5687.78
	TOTAL				54130.09 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		46170.20		6925.53
	Total				61055.62 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		53095.73		530.96
	Cost of 10 valves				61586.58
	Cost of 1 valve				6158.66
	Say				6158.65
18.31.4	200 mm diameter				
18.31.4.1	Class I				
	Details of cost for 10 sluice valves				
	MATERIAL				
1943	C.I.sluite valve (with caps) class I : 200 mm dia	each	10.00	7500.00	75000.00
	Carriage of sluice valves wt. = 121.5x10=1215kg = 1.215t. say 1.22t				
2309	Carriage of Cast iron fittings	tonne	1.22	94.34	115.09
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water Supply)	quintal	12.15	296.40	3601.30 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.5	(Rate as per item No.18.30.5 Of SH: Water Supply)	each	20.00	297.90	5957.92 A
	TOTAL				84674.32 W
	Add 1 % Water charges on "W-A"		75115.09		751.15
	TOTAL				85425.47 X
	Add GST (multiplying factor 0.1405) on "X-A"		75866.24		10659.21
	TOTAL				96084.68 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		86525.45		12978.82
	Total				109063.49 Z
	Add Cess @ 1% on "Z-A"		99504.27		995.04
	Cost of 10 valves				110058.54
	Cost of 1 valve				11005.85
	Say				11005.85
18.31.4.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3320	C.I.sluite valve (with caps) class II : 200 mm dia	each	10.00	8900.00	89000.00
	Carriage of sluice valves wt. = 150.5x10=1505 kg = 1.5 t. say 1.5 t				
2309	Carriage of Cast iron fittings	tonne	1.50	94.34	141.51
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water	quintal	15.05	296.40	4460.87 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Supply) Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.20.5 Of SH: Water	each	20.00	297.90	5957.92 A
18.30.5	Supply) TOTAL				99560.30 W
	Add 1 % Water charges on "W-A"	89141.51		891.42	
	TOTAL				100451.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	90032.92		12649.63	
	TOTAL				113101.34 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	102682.55		15402.38	
	Total				128503.73 Z
	Add Cess @ 1% on "Z-A"	118084.93		1180.85	
	Cost of 10 valves				129684.58
	Cost of 1 valve				12968.46
	Say				12968.45
18.31.5	250 mm diameter				
18.31.5.1	Class I				
	Details of cost for 10 sluice valves				
	MATERIAL				
1944	C.I.sluice valve (with caps) class I : 250 mm dia	each	10.00	10980.00	109800.00
	Carriage of sluice valves wt. = 179.9x10=1799kg = 1.799t. say 1.80t				
2309	Carriage of Cast iron fittings	tonne	1.80	94.34	169.81
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water	quintal	17.99	296.40	5332.24 A
	Supply) Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.6 Of SH: Water	each	20.00	413.15	8263.00 A
18.30.6	Supply) TOTAL				123565.04 W
	Add 1 % Water charges on "W-A"	109969.81		1099.70	
	TOTAL				124664.74 X
	Add GST (multiplying factor 0.1405) on "X-A"	111069.51		15605.27	
	TOTAL				140270.01 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	126674.77		19001.22	
	Total				159271.22 Z
	Add Cess @ 1% on "Z-A"	145675.99		1456.76	
	Cost of 10 valves				160727.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 valve				16072.80
	Say				16072.80
18.31.5.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3321	C.I.sluice valve (with caps) class II : 250 mm dia	each	10.000	14500.00	145000.00
	Carriage of sluice valves wt. = 229.9x10=2299kg = 2299t. say 2.30t				
2309	Carriage of Cast iron fittings	tonne	2.300	94.34	216.98
18.24	LABOUR for laying sluice valve (Rate as per item No. 18.24 Of SH: Water Supply)	quintal	22.990	296.40	6814.32 A
18.30.6	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.6 Of SH: Water Supply)	each	20.000	413.15	8262.94 A
	TOTAL				160294.24 W
	Add 1 % Water charges on "W-A"		145216.98		1452.17
	TOTAL				161746.41 X
	Add GST (multiplying factor 0.1405) on "X-A"		146669.15		20607.02
	TOTAL				182353.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		167276.16		25091.42
	Total				207444.84 Z
	Add Cess @ 1% on "Z-A"		192367.59		1923.68
	Cost of 10 valves				209368.52
	Cost of 1 valve				20936.85
	Say				20936.85

18.31.6 300 mm diameter

18.31.6.1 Class I

	Details of cost for 10 sluice valves				
	MATERIAL				
1945	C.I.sluice valve (with caps) class I : 300 mm dia	each	10.00	15500.00	155000.00
	Carriage of sluice valves wt. = 242.4x10=2424kg = 2.424t. say 2.42t				
2309	Carriage of Cast iron fittings	tonne	2.42	94.34	228.30
18.24	LABOUR for laying sluice valve (Rate as per item No. 18.24 Of SH: Water Supply)	quintal	24.24	296.40	7184.82 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.30.7	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.7 Of SH: Water Supply)	each	20.00	419.85	8396.93 A
	TOTAL				170810.05 W
	Add 1 % Water charges on "W-A"		155228.30		1552.28
	TOTAL				172362.34 X
	Add GST (multiplying factor 0.1405) on "X-A"		156780.58		22027.67
	TOTAL				194390.01 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		178808.25		26821.24
	Total				221211.25 Z
	Add Cess @ 1% on "Z-A"		205629.49		2056.29
	Cost of 10 valves				223267.54
	Cost of 1 valve				22326.75
	Say				22326.75
18.31.6.2	Class II				
	Details of cost for 10 sluice valves				
	MATERIAL				
3326	C.I.sluice valve (with caps) class II : 300 mm dia	each	10.00	18200.00	182000.00
	Carriage of sluice valves wt. = 303.4x10=3034kg = 3.304t.				
2309	Carriage of Cast iron fittings	tonne	3.03	94.34	285.84
	LABOUR for laying sluice valve				
18.24	(Rate as per item No. 18.24 Of SH: Water Supply)	quintal	30.34	296.40	8992.89 A
18.30.7	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc. (Rate as per item No.18.30.7 Of SH: Water Supply))	each	20.00	419.85	8396.93 A
	TOTAL				199675.66 W
	Add 1 % Water charges on "W-A"		182285.84		1822.86
	TOTAL				201498.52 X
	Add GST (multiplying factor 0.1405) on "X-A"		184108.70		25867.27
	TOTAL				227365.79 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		209975.97		31496.40
	Total				258862.19 Z
	Add Cess @ 1% on "Z-A"		241472.37		2414.72
	Cost of 10 valves				261276.91
	Cost of 1 valve				26127.69
	Say				26127.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.32	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				
18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	MATERIAL				
	(i) Earth work in excavation including refilling and disposal of surplus earth 0.68x0.68x0.65m=0.301cum.				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	0.30	171.40	51.42 A
2.25	Rate as per item No.2.25	cum	0.30	124.50	37.35 A
	(ii) Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) 0.68x0.68x0.075m=0.035cum. Say 0.04 cum.				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete work	cum	0.04	4390.60	175.62 A
	(iii) Second class brick work in cement mortar 1:4 (1 Cement : 4 coarse sand) in foundations and plinth 1.66mx0.115x0.50m=0.095cum. Say 0.10 cum.				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.10	5528.25	552.83 A
	(iv) 12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement. 1.20x0.50=0.60sqm 0.30x0.30=0.09sqm. Total =0.69sqm. Say 0.70sqm.				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.70	235.50	164.85 A
1304	Surface box for stop cock	each	1.00	125.00	125.00
	(vi)				
9977	Carriage of C.I. surface box	L.S.	1.43	2.00	2.86
	(vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 0.53mx0.53mx0.075m = 0.02107cum. Less surface box 0.112x0.112x0.076 =(-)0.00094 cum. = 0.0201 cum. Say 0.02cum.				
5.3	Rate as per item No.5.3 SH : R.C.C	cum	0.02	7835.75	156.71 A
	(viii) Less labour for not lifting the materilas upto floor five level				
0018	Coolie	day	-0.038	320.83	-12.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ix)				
9999	Sundries	L.S.	4.16	2.00	8.32
	TOTAL				1262.77 W
	Add 1 % Water charges on "W-A"		123.99		1.24
	TOTAL				1264.01 X
	Add GST (multiplying factor 0.1405) on "X-A"		125.23		17.59
	TOTAL				1281.61 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		142.82		21.42
	Total				1303.03 Z
	Add Cess @ 1% on "Z-A"		164.25		1.64
	Cost of one manhole				1304.67
	Say				1304.65

18.33 Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :

18.33.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Details of cost for one chamber

MATERIAL

(i) Earth work in excavation including refilling and disposal of surplus earth

1.21x1.21x1.00m=1.464cum.

Say 1.46 cum.

2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	1.46	171.40	250.24 A

2.25	Rate as per item No.2.25 of SH: Earth Work (ii)	cum	1.46	124.50	181.77 A

Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size)

1.21x1.21x0.1m=0.146cum. Say 0.15 cum.

4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.15	4390.60	658.59 A

(iii) Second class brick work in cement mortar 1: 4(1 Cement : 4coarse sand) in foundations and plinth

3.32mx0.23mx0.75m=0.573cum.

Say 0.57 cum.

6.1.1	Rate as per item no 6.1.1 of SH : Brick Work (iv)	cum	0.57	5528.25	3151.10 A

12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement.
2.40x0.75=1.80sqm.

0.60x0.60=0.36sqm. Total = 2.16sqm.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9.1	Rate as per item no 13.9.1 of SH : Finishing (v) C.I. surface box with hinged cover 100x100x75mm (inside)	sqm	2.16	235.50	508.68 A
1305	Surface box for sluice valve (vi)	each	1.00	210.00	210.00
9977	Carriage of C.I. surface box (vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.06mx1.06mx0.15m = 0.1685 cum. Less surface box 3.142/4xd2x0.18m - 0.7854x0.156mx0.156mx0.18 = (-)0.0034 cum. = 0.1651 cum. Say 0.17 cum.	L.S.	8.06	2.00	16.12
5.3	Rate as per item No.5.3 Of SH: RCC (viii) Less labour for not lifting the materials upto floor five level	cum	0.17	7835.75	1332.08 A
0018	Coolie (ix) Mild steel reinforcement for RCC work etc. 0.165cum.x80kg/cum. = 13.2kg	day	-0.32	320.83	-102.67
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work (x) Form work 0.60mx0.60m=0.36sqm.+ 3.32mx0.15m=0.50sqm. = 0.86 sqm.	kg	13.20	75.40	995.28 A
5.9.3	Rate as per item No.5.9.3 Of SH: RCC (xi)	sqm	0.86	468.30	402.74 A
9999	Sundries	L.S.	8.06	2	16.12
	TOTAL				7620.06 W
	Add 1 % Water charges on "W-A"	139.57			1.40
	TOTAL				7621.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	140.97			19.81
	TOTAL				7641.26 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	160.78			24.12
	Total				7665.37 Z
	Add Cess @ 1% on "Z-A"	184.89			1.85
	Cost of one manhole				7667.22
	Say				7667.20
18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for one chamber				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	(i) Earth work in excavation including refilling and disposal of surplus earth 1.51X1.51X1.25M = 2.85cum.				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	2.85	171.40	488.49 A
2.25	Rate as per item No.2.25 of SH: Earth work (ii) Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) 1.51x1.51x0.1m=0.228cum. Say 0.23 cum.	cum	2.85	124.50	354.83 A
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.23	4390.60	1009.84 A
	(iii) Second class brick work in cement mortar 1:4 (1 Cement : 4coarse sand) in foundations and plinth 4.52mx0.23mx1.00m=1.04cum.				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work (iv) 12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement. 3.60mx1.00m=3.60sqm."0.90mx0.90m =0.81sqm. Total=4.41sqm.	cum	1.04	5528.25	5749.38 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing (v) C.I. surface box with chained lid.	sqm	4.41	235.50	1038.56 A
1305	Surface box for sluice valve	each	1.00	210.00	210.00
9977	(vi) Carriage of C.I. surface box	L.S.	8.06	2.00	16.12
	(vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.36mx1.36mx0.15m = 0.2774 cum. Less surface box 0.7854x0.156mx0.156mx 0.18m = (-)0.0034 cum. = 0.2740 cum. Say 0.27 cum.				
5.3	Rate as per item No.5.3 Of SH: RCC	cum	0.27	7835.75	2115.65 A
	(viii) Less labour for not lifting the materilas upto floor five level				
0018	Coolie	day	-0.51	320.83	-163.62
	(ix) Mild steel reinforcement for RCC work etc. 0.274cum.x80kg/cum. = 21.92 kg.				
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	21.92	75.40	1652.77 A
	(x) Form work 0.90mx0.90m=0.81sqm.+ 4.52mx0.15m = 0.68 sqm. Total= 1.49 sqm.				
5.9.3	Rate as per item No.5.9.3 Of SH: RCC	sqm	1.49	468.30	697.77 A
	(xi)				
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				13185.89
	Add 1 % Water charges on "W-A"	78.62			0.79
	TOTAL				13186.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	79.40			11.16
	TOTAL				13197.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	90.56			13.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				13211.42 Z
	Add Cess @ 1% on "Z-A"	104.14			1.04
	Cost of one manhole				13212.46
	Say				13212.45
18.35	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
18.35.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	MATERIAL				
	(i) Earth work in excavation including refilling and disposal of surplus earth 1.81X1.81X1.25M				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	4.10	171.40	702.74 A
2.25	Rate as per item No.2.25 of SH: Earth work (ii) Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) 1.81x1.81x0.1m=0.328cum. Say 0.33 cum.	cum	4.10	124.50	510.45 A
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.33	4390.60	1448.90 A
	(iii) Second class brick work in cement mortar 1:4 (1 Cement : 4coarse sand) in foundations and plinth 5.72mx0.23mx1.00m=1.316cum. Say 1.32 cum.				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	1.32	5528.25	7297.29 A
	(iv) 12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement. 4.80mx1.00m=4.80sqm. 1.20mx1.20m=1.44sqm. Total=6.42sqm.				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing (v) C.I. surface box with chained lid	sqm	6.42	235.50	1511.91 A
1305	Surface box for sluice valve	each	1.00	210.00	210.00
9977	(vi) Carriage of C.I. surface box	L.S.	8.06	2.00	16.12
	(vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.66mx1.66mx0.15m = 0.4133 cum. Less surface box 0.7854x0.156mx 0.156mx0.18m = (-)0.0034 cum. Total= 0.4099 cum. Say 0.41 cum.				
5.3	Rate as per item No.5.3 Of SH: RCC	cum	0.41	7835.75	3212.66 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0018	(viii) Less labour for not lifting the materials upto floor five level Coolie	day	-0.77	320.83	-247.04
5.22.1	(ix) Mild steel reinforcement for RCC slab steel @ 80kg/cum. 0.41cum.x80kg/cum. = 32.80kg. Rate as per item no. 5.22.1 of SH : RCC work	kg	32.8	75.40	2473.12 A
5.9.3	(x) Form work 1.20mx1.20m=1.44sqm.+ 5.72mx0.15m=0.86 sqm. Total = 2.30sqm. Rate as per item No.5.9.3 Of SH: RCC	sqm	2.30	468.30	1077.10 A
9999	(xi) Sundries	L.S.	8.06	2	16.12
	TOTAL				18229.36 W
	Add 1 % Water charges on "W-A"	-4.80			-0.05
	TOTAL				18229.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	-4.85			-0.68
	TOTAL				18228.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	-5.53			-0.83
	Total				18227.81 Z
	Add Cess @ 1% on "Z-A"	-6.36			-0.06
	Cost of one manhole				18227.74
	Say				18227.75
18.36	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
18.36.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	MATERIAL				
	(i) Earth work in excavation including refilling and disposal of surplus earth 1.21X1.21X1.00M = 1.464cum. Say 1.46cum.				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	1.46	171.40	250.25 A
2.25	Rate as per item No.2.25 of SH: Earth work (ii) Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size)	cum	1.46	124.50	181.77 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.11	1.21x1.21x0.1m=0.146cum. Say 0.15 cum. Rate as per item no 4.1.11 of SH : Concrete Work (iii) Second class brick work in cement mortar 1:4 (1 Cement : 4 coarse sand) in foundations and plinth 3.32mx0.23mx0.75m=0.573cum. Say 0.57 cum.	cum	0.15	4390.60	658.59 A
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work (iv) 12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement. 2.40mx0.75m=1.80sqm."0.90mx0.90m =0.36sqm." Total=2.16sqm.	cum	0.57	5528.25	3151.10 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing (v) C.I. surface box with chained lid	sqm	2.16	235.50	508.67 A
1305	Surface box for sluice valve	each	1.00	210.00	210.00
9977	(vi) Carriage of C.I. surface box (vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.06mx1.06mx0.15m = 0.1685 cum. Less surface box 0.61x0.41mx0.15m = (-)0.0375 cum. = 0.131 cum. Say 0.13 cum.	L.S.	53.82	2.00	107.64
5.3	Rate as per item No.5.3 Of SH: RCC (viii) Less labour for not lifting the materilas upto floor five level	cum	0.13	7835.75	1018.65 A
0018	Coolie (ix) Mild steel reinforcement for RCC work etc. 0.131cumx80kg/cum. = 10.48kg.	day	-0.24	320.83	-77.00
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work (x) Form work 0.60mx0.60m=0.36sqm.+ 3.32mx0.15m = 0.50 sqm. Total =0.86 sqm.	kg	10.48	75.40	790.19 A
5.9.3	Rate as per item No.5.9.3 Of SH: RCC (xi)	sqm	0.86	468.30	402.74 A
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				7218.73 W
	Add 1 % Water charges on "W-A"	256.76			2.57
	TOTAL				7221.30 X
	Add GST (multiplying factor 0.1405) on "X-A"	259.33			36.44
	TOTAL				7257.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	295.76			44.36
	Total				7302.10 Z
	Add Cess @ 1% on "Z-A"	340.13			3.40
	Cost of one manhole				7305.50
	Say				7305.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.37	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
18.37.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	MATERIAL				
	(i) Earth work in excavation including				
	refilling and disposal of surplus earth				
	1.21X1.06X0.85M = 1.09cum.				
2.8.1	Rate as per item no. 2.8.1 of SH: Earth work	cum	1.09	171.40	186.83 A
2.25	Rate as per item No.2.25 of SH: Earth work (ii)	cum	1.09	124.50	135.71 A
	Cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size)				
	1.21x1.06x0.1m=0.128cum. Say 0.13 cum.				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.13	4390.60	570.78 A
	(iii) Second class brick work in cement mortar 1:4 (1 Cement : 4 coarse sand) in foundations and plinth				
	3.02mx0.23mx0.50m=0.347cum.				
	Say 0.35 cum.				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work (iv)	cum	0.35	5528.25	1934.89 A
	12mm cement plaster 1:3 (1 Cement : 3 Coarse sand) finished with a floating coat of neat cement.				
	2.10mx0.50m=1.05sqm.				
	0.60mx0.45m=0.27sqm. Total=1.32sq				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	1.32	235.50	310.86 A
	(v) C.I. surface box 400x200x200mm (inside) with locking arrangement				
1307	Surface box for water meter	each	1.00	250.00	250.00
9977	(vi) Carriage of C.I. surface box	L.S.	13.52	2.00	27.04
	(vii) Cement concrete 1:2:4 (1 Cement : 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.06mx0.91mx0.25m = 0.241 cum. Less surface box 0.42x0.22mx0.2m = (-)0.018 cum. = 0.223 cum. Say 0.22 cum.				
5.3	Rate as per item No.5.3 Of SH: RCC	cum	0.22	7835.75	1723.86 A
	(viii) Less labour for not lifting the materilas upto floor five level				
0018	Coolie	day	-0.41	320.83	-131.54
	(ix) Mild steel reinforcement for RCC work steel @ 80kg/cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.22.1	0.223cum.x80kg/cum. = 17.84 kg. Rate as per item no. 5.22.1 of SH : RCC work (x) Form work 0.60mx0.45m=0.27sqm.+ 3.02mx0.25m=0.76sqm. Total = 1.03sqm.	kg	17.84	75.40	1345.21 A
5.9.3	Rate as per item No.5.9.3 Of SH: RCC (xi)	sqm	1.03	468.30	482.35 A
9999	Sundries	L.S.	8.06	2	16.12
	TOTAL				6852.11
	Add 1 % Water charges on "W-A"	161.62			1.62
	TOTAL				6853.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	163.24			22.93
	TOTAL				6876.66 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	186.17			27.93
	Total				6904.58 Z
	Add Cess @ 1% on "Z-A"	214.10			2.14
	Cost of one manhole				6906.72
	Say				6906.70
18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				
18.38.1	15 mm diameter pipe				
	Details of cost for 10 metre Perimeter = 0.0673 metre				
	Area=10x0.0673m = 0.673sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing Painting two coats excluding priming coat with white paint on new work.	sqm	0.673	33.30	22.41 A
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	0.673	82.40	55.45 A
9999	Add for delay	L.S.	13.52	2	27.04
	TOTAL				104.90 W
	Add 1 % Water charges on "W-A"	27.04			0.27
	TOTAL				105.17 X
	Add GST (multiplying factor 0.1405) on "X-A"	27.31			3.84
	TOTAL				109.01 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31.15			4.67
	Total				113.68 Z
	Add Cess @ 1% on "Z-A"	35.82			0.36
	Cost of 10 metre				114.04
	Cost of one metre				11.40
	Say				11.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.38.2	20 mm diameter pipe				
	Details of cost for 10 metre				
	Perimeter = 0.0845 metre				
	Area = 10x0.0845 sqm. = 0.845 sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing Painting two coats excluding priming coat with white paint on new work.	sqm	0.845	33.30	28.14 A
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	0.845	82.40	69.62 A
9999	Add for delay	L.S.	13.52	2	27.04
	TOTAL				124.80 W
	Add 1 % Water charges on "W-A"	27.04			0.27
	TOTAL				125.07 X
	Add GST (multiplying factor 0.1405) on "X-A"	27.31			3.84
	TOTAL				128.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31.15			4.67
	Total				133.58 Z
	Add Cess @ 1% on "Z-A"	35.82			0.36
	Cost of 10 metre				133.94
	Cost of one metre				13.39
	Say				13.40
18.38.3	25 mm diameter pipe				
	Details of cost for 10 metre				
	Perimeter = 0.1061 metre				
	Area = 10x0.1061 sqm. = 1.061 sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing Painting two coats excluding priming coat with white paint on new work.	sqm	1.061	33.30	35.33 A
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	1.061	82.40	87.42 A
9999	Add for delay	L.S.	20.28	2	40.56
	TOTAL				163.31 W
	Add 1 % Water charges on "W-A"	40.56			0.41
	TOTAL				163.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	40.97			5.76
	TOTAL				169.48 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	46.72			7.01
	Total				176.48 Z
	Add Cess @ 1% on "Z-A"	53.73			0.54
	Cost of 10 metre				177.02
	Cost of one metre				17.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				17.70
18.38.4	32 mm diameter pipe				
	Details of cost for 10 metre				
	Perimeter = 0.1334 metre				
	Area = 10x0.1334 sqm. = 1.334 sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	1.334	33.30	44.42 A
	Painting two coats excluding priming coat with white				
	paint on new work.				
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	1.334	82.40	109.92 A
9999	Add for delay	L.S.	20.28	2	40.56
	TOTAL				194.90 W
	Add 1 % Water charges on "W-A"	40.56			0.41
	TOTAL				195.30 X
	Add GST (multiplying factor 0.1405) on "X-A"	40.97			5.76
	TOTAL				201.06 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	46.72			7.01
	Total				208.07 Z
	Add Cess @ 1% on "Z-A"	53.73			0.54
	Cost of 10 metre				208.61
	Cost of one metre				20.86
	Say				20.85
18.38.5	40 mm diameter pipe				
	Details of cost for 10 metre				
	Perimeter = 0.1520 metre				
	Area = 10x0.1520 sqm. = 1.520 sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	1.52	33.30	50.62 A
	Painting two coats excluding priming coat with white				
	paint on new work.				
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	1.52	82.40	125.24 A
9999	Add for delay	L.S.	26.91	2	53.82
	TOTAL				229.68
	Add 1 % Water charges on "W-A"	53.82			0.54
	TOTAL				230.22 X
	Add GST (multiplying factor 0.1405) on "X-A"	54.36			7.64
	TOTAL				237.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	62.00			9.30
	Total				247.15 Z
	Add Cess @ 1% on "Z-A"	71.29			0.71
	Cost of 10 metre				247.87
	Cost of one metre				24.79
	Say				24.80
18.38.6	50 mm diameter pipe				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre				
	Perimeter = 0.1894 metre				
	Area = 10x0.1894 sqm. = 1.894 sqm. Priming coat-				
13.50.3	Rate as per item no 13.50.3 of SH : Finishing	sqm	1.894	33.30	63.07 A
	Painting two coats excluding priming coat with white				
	paint on new work.				
13.61.1	Rate as per item no 13.61.1 of SH : Finishing	sqm	1.894	82.40	156.07 A
9999	Add for delay	L.S.	26.91	2.00	53.82
	TOTAL				272.96 W
	Add 1 % Water charges on "W-A"	53.82			0.54
	TOTAL				273.49 X
	Add GST (multiplying factor 0.1405) on "X-A"	54.36			7.64
	TOTAL				281.13 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	62.00			9.30
	Total				290.43 Z
	Add Cess @ 1% on "Z-A"	71.29			0.71
	Cost of 10 metre				291.14
	Cost of one metre				29.11
	Say				29.10
18.39	Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :				
18.39.1	15 mm diameter pipe				
	Details of cost for 10 metre				
	Painting one coat with white paint on old work.				
13.99.1	(Rate as per item no 14.54.1 of S.H. Repair to	sqm	0.673	53.85	36.24 A
	Building)				
9999	Add for delay	L.S.	8.06	2	16.12
	TOTAL				52.36 W
	Add 1 % Water charges on "W-A"	16.12			0.16
	TOTAL				52.52 X
	Add GST (multiplying factor 0.1405) on "X-A"	16.28			2.29
	TOTAL				54.81 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18.57			2.79
	Total				57.59 Z
	Add Cess @ 1% on "Z-A"	21.35			0.21
	Cost of 10 metre				57.81
	Cost of one metre				5.78
	Say				5.80
18.39.2	20 mm diameter pipe				
	Details of cost for 10 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.99.1	Painting one coat with white paint on old work. (Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	0.845	53.85	45.50 A
9999	Add for delay	L.S.	8.06	2	16.12
	TOTAL				61.62
	Add 1 % Water charges on "W-A"	16.12			0.16
	TOTAL				61.78 X
	Add GST (multiplying factor 0.1405) on "X-A"	16.28			2.29
	TOTAL				64.07 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18.57			2.79
	Total				66.85 Z
	Add Cess @ 1% on "Z-A"	21.35			0.21
	Cost of 10 metre				67.07
	Cost of one metre				6.71
	Say				6.70
18.39.3	25 mm diameter pipe				
	Details of cost for 10 metre				
13.99.1	Painting one coat with white paint on old work. (Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	1.061	53.85	57.13 A
9999	Add for delay	L.S.	10.79	2	21.58
	TOTAL				78.71 W
	Add 1 % Water charges on "W-A"	21.58			0.22
	TOTAL				78.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	21.80			3.06
	TOTAL				81.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	24.86			3.73
	Total				85.72 Z
	Add Cess @ 1% on "Z-A"	28.59			0.29
	Cost of 10 metre				86.00
	Cost of one metre				8.60
	Say				8.60
18.39.4	32 mm diameter pipe				
	Details of cost for 10 metre				
13.99.1	Painting one coat with white paint on old work. (Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	1.334	53.85	71.83 A
9999	Add for delay	L.S.	10.92	2	21.84
	TOTAL				93.67 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"	21.84			0.22
	TOTAL				93.89 X
	Add GST (multiplying factor 0.1405) on "X-A"	22.06			3.10
	TOTAL				96.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	25.16			3.77
	Total				100.76 Z
	Add Cess @ 1% on "Z-A"	28.93			0.29
	Cost of 10 metre				101.05
	Cost of one metre				10.11
	Say				10.10
18.39.5	40 mm diameter pipe				
	Details of cost for 10 metre				
	Painting one coat with white paint on old work.				
13.99.1	(Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	1.52	53.85	81.84 A
9999	Add for delay	L.S.	13.52	2	27.04
	TOTAL				108.88 W
	Add 1 % Water charges on "W-A"	27.04			0.27
	TOTAL				109.16 X
	Add GST (multiplying factor 0.1405) on "X-A"	27.31			3.84
	TOTAL				112.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31.15			4.67
	Total				117.66 Z
	Add Cess @ 1% on "Z-A"	35.82			0.36
	Cost of 10 metre				118.02
	Cost of one metre				11.80
	Say				11.80
18.39.6	50 mm diameter pipe				
	Details of cost for 10 metre				
	Painting one coat with white paint on old work.				
13.99.1	(Rate as per item no 14.54.1 of S.H. Repair to Building)	sqm	1.894	53.85	101.98 A
9999	Add for delay	L.S.	13.52	2	27.04
	TOTAL				129.02 W
	Add 1 % Water charges on "W-A"	27.04			0.27
	TOTAL				129.29 X
	Add GST (multiplying factor 0.1405) on "X-A"	27.31			3.84
	TOTAL				133.13 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"	31.15			4.67	
	Total				137.80	Z
	Add Cess @ 1% on "Z-A"	35.82			0.36	
	Cost of 10 metre				138.16	
	Cost of one metre				13.82	
	Say				13.80	
18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :					
18.40.1	15 mm diameter pipe					
	Details of cost for 10 metre					
	Painting with anti-corrosive paint two coats.					
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	0.673	66.90	45.03	A
9999	Add for delay	L.S.	8.06	2	16.12	
	TOTAL				61.15	
	Add 1 % Water charges on "W-A"	16.12			0.16	
	TOTAL				61.31	X
	Add GST (multiplying factor 0.1405) on "X-A"	16.28			2.29	
	TOTAL				63.59	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18.57			2.79	
	Total				66.38	Z
	Add Cess @ 1% on "Z-A"	21.35			0.21	
	Cost of 10 metre				66.59	
	Cost of one metre				6.66	
	Say				6.65	
18.40.2	20 mm diameter pipe					
	Detail of cost for 10 sqm					
	MATERIAL					
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	0.845	66.90	56.53	A
9999	Add for delay	L.S.	8.06	2.00	16.12	
	TOTAL				72.65	
	Add 1 % Water charges on "W-A"	16.12			0.16	
	TOTAL				72.81	X
	Add GST (multiplying factor 0.1405) on "X-A"	16.28			2.29	
	TOTAL				75.10	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18.57			2.79	
	Total				77.89	Z
	Add Cess @ 1% on "Z-A"	21.35			0.21	
	Cost of 10 metre				78.10	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one metre				7.81
	Say				7.80
18.40.3	25 mm diameter pipe				
	Detail of cost for 10 sqm				
	MATERIAL				
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	1.061	66.90	70.98 A
9999	Add for delay	L.S.	10.79	2.00	21.58
	TOTAL				92.56
	Add 1 % Water charges on "W-A"	21.58			0.22
	TOTAL				92.78 X
	Add GST (multiplying factor 0.1405) on "X-A"	21.80			3.06
	TOTAL				95.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	24.86			3.73
	Total				99.57 Z
	Add Cess @ 1% on "Z-A"	28.59			0.29
	Cost of 10 metre				99.86
	Cost of one metre				9.99
	Say				10.00
18.40.4	32 mm diameter pipe				
	Detail of cost for 10 sqm				
	MATERIAL				
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	1.334	66.90	89.25 A
9999	Add for delay	L.S.	10.79	2.00	21.58
	TOTAL				110.83
	Add 1 % Water charges on "W-A"	21.58			0.22
	TOTAL				111.04 X
	Add GST (multiplying factor 0.1405) on "X-A"	21.80			3.06
	TOTAL				114.11 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	24.86			3.73
	Total				117.84 Z
	Add Cess @ 1% on "Z-A"	28.59			0.29
	Cost of 10 metre				118.12
	Cost of one metre				11.81
	Say				11.80
18.40.5	40 mm diameter pipe				
	Detail of cost for 10 sqm				
	MATERIAL				
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	1.52	66.90	101.69 A
9999	Add for delay	L.S.	12.22	2.00	24.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				126.13
	Add 1 % Water charges on "W-A"	24.44			0.24
	TOTAL				126.38 X
	Add GST (multiplying factor 0.1405) on "X-A"	24.68			3.47
	TOTAL				129.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	28.15			4.22
	Total				134.07 Z
	Add Cess @ 1% on "Z-A"	32.38			0.32
	Cost of 10 metre				134.39
	Cost of one metre				13.44
	Say				13.45
18.40.6	50 mm diameter pipe				
	Detail of cost for 10 sqm				
	MATERIAL				
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	1.894	66.90	126.71 A
9999	Add for delay	L.S.	12.22	2.00	24.44
	TOTAL				151.15
	Add 1 % Water charges on "W-A"	24.44			0.24
	TOTAL				151.40 X
	Add GST (multiplying factor 0.1405) on "X-A"	24.68			3.47
	TOTAL				154.87 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	28.15			4.22
	Total				159.09 Z
	Add Cess @ 1% on "Z-A"	32.38			0.32
	Cost of 10 metre				159.41
	Cost of one metre				15.94
	Say				15.95
18.40.7	65 mm diameter pipe				
	Detail of cost for 10 sqm				
	MATERIAL				
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	2.387	66.90	159.70 A
9999	Add for delay	L.S.	13.52	2.00	27.04
	TOTAL				186.74
	Add 1 % Water charges on "W-A"	27.04			0.27
	TOTAL				187.01 X
	Add GST (multiplying factor 0.1405) on "X-A"	27.31			3.84
	TOTAL				190.84 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"	31.15			4.67	
	Total				195.52	Z
	Add Cess @ 1% on "Z-A"	35.82			0.36	
	Cost of 10 metre				195.87	
	Cost of one metre				19.59	
	Say				19.60	
18.40.8	80 mm diameter pipe					
	Details of cost for 10 metre					
	Painting with anti-corrosive paint two coats.					
13.65.1	(Rate as per item No.13.65.1 sub-heads finishing)	sqm	2.796	66.90	187.06	A
9999	Add for delay	L.S.	14.82	2	29.64	
	TOTAL				216.70	
	Add 1 % Water charges on "W-A"	29.64			0.30	
	TOTAL				217.00	X
	Add GST (multiplying factor 0.1405) on "X-A"	29.94			4.21	
	TOTAL				221.20	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	34.14			5.12	
	Total				226.32	Z
	Add Cess @ 1% on "Z-A"	39.26			0.39	
	Cost of 10 metre				226.72	
	Cost of one metre				22.67	
	Say				22.65	
18.41	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :					
18.41.1	15 mm diameter pipe					
	Details of cost of sand filling alround 15mm dia. pipe					
	10 metre long.					
	Width of sand filling = 300mm					
	Depth of sand filling					
	Under the pipe = 75mm+					
	Above the pipe = 150mm+					
	Max. external dia of pipe = 21.8mm					
	= 246.8mm say 247mm					
	Quantity of sand = $10 \times 0.30 \times 0.247 = 0.744$ cum.					
	Less for pipe = $3.142/4(21.8)^2 \times 10 = (-)0.004$ cum.					
	= 0.74 cum.					
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	0.74	1866.80	1381.43	
	TOTAL				1381.43	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost of 10 metre 1381.43

Cost of one metre 138.14

Say 138.15

18. 41.1A Sub analysis item for sand filling component

Sub analysis item for sand filling component

MATERIAL

6501 Sand zone V (Jamuna) cum 1.00 1225.00 1225.00

2335 Carriage of Sand Labour: cum 1.00 106.13 106.13

0017 Beldar day 0.09 320.83 28.87

0018 Coolie day 0.11 320.83 35.29

TOTAL 1395.30

Add 1 % Water charges on "W" 13.95

TOTAL 1409.25 X

Add GST (multiplying factor 0.1405) on "X" 198.00

TOTAL 1607.25 Y

Add 15 % Contractor's profit and overheads on "Y" 241.09

Total 1848.34 Z

Add Cess @ 1% on "Z" 18.48

Cost of one cum. 1866.82

Say 1866.80

18.41.2 20 mm diameter pipe

Details of cost of sand filling alround

20mm dia. pipe 10 metre long.

Width of sand filling = 300mm

Depth of sand filling

Under the pipe = 75mm+

Above the pipe = 150mm+

Max. external dia of pipe = 27.3mm

= 252.3 Say 252mm

Quantity of sand = $10 \times 0.30 \times 0.252 =$

0.756 cum.+

Less for pipe $= 3.142/4(27.3)^2 \times 10 =$

(-)0.006cum.

= 0.750 cum

18. 41.1A Rate as per Item Number 18.41.1A of SH:Water supply cum 0.75 1866.80 1400.10

Total: 1400.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 10 metre				1400.10
	Cost for one metre				140.01
	Say				140.00
18.41.3	25 mm diameter pipe				
	Details of cost of sand filling alround 25mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 34.2mm = 259.2 Say 259mm Quantity of sand = $10 \times 0.30 \times 0.259 = 0.777$ cum.+ Less for pipe $3.142/4(34.2)^2 \times 10 = (-)0.009$ cum. = 0.768 Say 0.77 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	0.77	1866.80	1437.44
	Total:				<u>1437.44</u>
	Cost for 10 metre				1437.44
	Cost for one metre				143.74
	Say				143.75
18.41.4	32 mm diameter pipe				
	Details of cost of sand filling alround 32mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 42.9mm = 267.9 Say 268mm Quantity of sand = $10 \times 0.30 \times 0.268 = 0.804$ cum.+ Less for pipe $3.142/4(42.9)^2 \times 10 = (-)0.014$ cum. = 0.790 Say 0.79 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	0.79	1866.80	1474.77
	Total:				<u>1474.77</u>
	Cost for 10 metre				1474.77
	Cost for one metre				147.48
	Say				147.50
18.41.5	40 mm diameter pipe				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost of sand filling alround 40mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 48.8mm = 273.8 Say 274mm Quantity of sand = $10 \times 0.30 \times 0.274 = 0.82$ cum.+ Less for pipe $3.142/4(48.8)^2 \times 10 = (-)0.014$ cum. = 0.801 Say 0.80 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	0.80	1866.80	1493.44
	Total:				1493.44
	Cost for 10 metre				1493.44
	Cost for one metre				149.34
	Say				149.35
18.41.6	50 mm diameter pipe				
	Details of cost of sand filling alround 50mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 60.8mm = 285.8 Say 286mm Quantity of sand = $10 \times 0.30 \times 0.286 = 0.858$ cum.+ Less for pipe $3.142/4(60.8)^2 \times 10 = (-)0.029$ cum. = 0.829 Say 0.83 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	0.83	1866.80	1549.44
	Total:				1549.44
	Cost for 10 metre				1549.44
	Cost for one metre				154.94
	Say				154.95
18.41.7	65 mm diameter pipe				
	Details of cost of sand filling alround 65mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 76.6mm = 301.6 Say 302mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Quantity of sand = $10 \times 0.45 \times 0.302 = 1.359$ cum.+ Less for pipe $3.142/4(76.6)^2 \times 10 = (-)0.046$ cum. = 1.313 Say 1.31 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	1.31	1866.80	2445.51 A
	TOTAL				2445.51
	Cost of 10 metre				2445.51
	Cost of one metre				244.55
	Say				244.55
18.41.8	80 mm diameter pipe				
	Details of cost of sand filling alround 65mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 89.9mm = 314.9 Say 315mm Quantity of sand = $10 \times 0.45 \times 0.315 = 1.418$ cum.+ Less for pipe $3.142/4(89.9)^2 \times 10 = (-)0.0640$ cum. = 1.354 Say 1.35 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	1.35	1866.80	2520.18 A
	TOTAL				2520.18
	Cost of 10 metre				2520.18
	Cost of one metre				252.02
	Say				252.00
18.41.9	100 mm diameter pipe				
	Details of cost of sand filling alround 100mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 115mm = 340mm Quantity of sand = $10 \times 0.45 \times 0.34 = 1.53$ cum.+ Less for pipe $3.142/4(0.115)^2 \times 10 = (-)0.10$ cum. = 1.43 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	1.43	1866.80	2669.52277 A
	TOTAL				2669.52
	Cost of 10 metre				2669.52
	Cost of one metre				266.95
	Say				266.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.41.10	150 mm diameter pipe				
	Details of cost of sand filling alround 150mm dia. pipe 10 metre long. Width of sand filling = 300mm Depth of sand filling Under the pipe = 75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 166.5mm = 391.50mm Say 0.392m Quantity of sand = $10 \times 0.60 \times 0.392 = 2.35 \text{ cum.} +$ Less for pipe $3.142/4(0.167)^2 \times 10 = (-)0.22 \text{ cum.}$ = 2.13 cum.				
18. 41.1A	Rate as per Item Number 18.41.1A of SH:Water supply	cum	2.13	1866.80	3976.28217 A
	TOTAL				3976.28
	Cost of 10 metre				3976.28
	Cost of one metre				397.63
	Say				397.65
18.42	Boring with 100 mm diameter casing pipe for hand pump / tubewell, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested :				
18.42.1	Up to 6 metres depth				
	Details of cost for 6m depth LABOUR For boring and removing the pipe-				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	3.00	320.83	962.49
010	Hire charges of Derrick monkey rope and other accessories	day	0.50	750.00	375.00
	Depreciation @ 2% of the cost of casing pipe 6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	335.00	40.20
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				1642.73 W
	Add 1 % Water charges on "W"				16.43
	TOTAL				1659.16 X
	Add GST (multiplying factor 0.1405) on "X"				233.11
	TOTAL				1892.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				283.84
	Total				2176.11 Z
	Add Cess @ 1% on "Z"				21.76
	Cost of 6 metre				2197.87
	Cost of one metre				366.31
	Say				366.30
18.42.2	Beyond 6 m and up to 12 m depth				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6m depth				
	LABOUR for boring and removing the pipe-				
0019	Fitter (grade 1)	day	0.62	476.00	295.12
0017	Beldar	day	3.50	320.83	1122.91
010	Hire charges of Derrick monkey rope and other accessories	day	0.62	750.00	465.00
	Depreciation @ 2% of the cost of casing pipe 6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	335.00	40.20
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				1950.27 W
	Add 1 % Water charges on "W"				19.50
	TOTAL				1969.77 X
	Add GST (multiplying factor 0.1405) on "X"				276.75
	TOTAL				2246.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				336.98
	Total				2583.50 Z
	Add Cess @ 1% on "Z"				25.83
	Cost of 6 metre				2609.33
	Cost of one metre				434.89
	Say				434.90
18.42.3	Beyond 12 m and up to 18 m depth				
	Details of cost for 6m depth				
	LABOUR				
	For boring and removing the pipe-				
0019	Fitter (grade 1)	day	0.75	476.00	357.00
0017	Beldar	day	4.00	320.83	1283.32
010	Hire charges of Derrickmonkey rope and other accessories	day	0.75	750.00	562.50
	Depreciation @ 2% of the cost of casing pipe 6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	335.00	40.20
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				2270.06 W
	Add 1 % Water charges on "W"				22.70
	TOTAL				2292.76 X
	Add GST (multiplying factor 0.1405) on "X"				322.13
	TOTAL				2614.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				392.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3007.13 Z
	Add Cess @ 1% on "Z"				30.07
	Cost of 6 metre				3037.20
	Cost of one metre				506.20
	Say				506.20
18.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.				
	Details of cost for one strainer 1.5 long				
	MATERIAL				
1882	Strainer brass 40 mm dia 1.5 metre long	each	1.00	600.00	600.00
9977	Carriage to site	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.17	476.00	80.92
0017	Beldar	day	0.17	320.83	54.54
9999	Sundreis including hamp white lead etc.	L.S.	7.15	2.00	14.30
	TOTAL				776.80 W
	Add 1 % Water charges on "W"				7.77
	TOTAL				784.57 X
	Add GST (multiplying factor 0.1405) on "X"				110.23
	TOTAL				894.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				134.22
	Total				1029.02 Z
	Add Cess @ 1% on "Z"				10.29
	Cost of 1.5 metre				1039.31
	Cost of one metre				692.87
	Say				692.85
18.44	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.				
	Details of cost for a depth of 10 metre				
	MATERIAL				
1549	G.I. pipes 40 mm dia	metre	10.20	250.00	2550.00
	Carriage of 40mm pipe(36.5kg)				
	Added 2% wastage and fitting				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.03723	94.34	3.51
9999	White lead, hamp and oil etc.	L.S.	6.76	2.00	13.52
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.75	320.83	240.62
9999	Sundries	L.S.	7.25	2.00	14.50
	TOTAL				2979.23 W
	Add 1 % Water charges on "W"				29.79
	TOTAL				3009.03 X
	Add GST (multiplying factor 0.1405) on "X"				422.77
	TOTAL				3431.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				514.77
	Total				3946.56 Z
	Add Cess @ 1% on "Z"				39.47
	Cost for 10 metre				3986.03
	Cost of one metre				398.60
	Say				398.60
18.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.				
	Details of cost for one pump				
	MATERIAL				
1693	S.C.I. hand pump	each	1.00	670.00	670.00
9977	Carriage	L.S.	13.52	2.00	27.04
	LABOUR				
0019	Fitter (grade 1)	day	0.10	476.00	47.60
0017	Beldar	day	0.10	320.83	32.08
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				785.56 W
	Add 1 % Water charges on "W"				7.86
	TOTAL				793.42 X
	Add GST (multiplying factor 0.1405) on "X"				111.48
	TOTAL				904.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				135.73
	Total				1040.63 Z
	Add Cess @ 1% on "Z"				10.41
	Cost for one hand pump				1051.03
	Say				1051.05
18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
18.46.1	15 mm nominal bore				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1641	G.I. Union 15 mm nominal bore	each	1.00	30.00	30.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				121.29 W
	Add 1 % Water charges on "W"				1.21
	TOTAL				122.50 X
	Add GST (multiplying factor 0.1405) on "X"				17.21
	TOTAL				139.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.96
	Total				160.67 Z
	Add Cess @ 1% on "Z"				1.61
	Cost for one no.				162.28
	Say				162.30
18.46.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1642	G.I. Union 20 mm nominal bore	each	1.00	49.00	49.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				140.29 W
	Add 1 % Water charges on "W"				1.40
	TOTAL				141.69 X
	Add GST (multiplying factor 0.1405) on "X"				19.91
	TOTAL				161.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.24
	Total				185.84 Z
	Add Cess @ 1% on "Z"				1.86
	Cost for one no.				187.70
	Say				187.70
18.46.3	25 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1643	G.I. Union 25 mm nominal bore	each	1.00	108.00	108.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				199.29 W
	Add 1 % Water charges on "W"				1.99
	TOTAL				201.28 X
	Add GST (multiplying factor 0.1405) on "X"				28.28
	TOTAL				229.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.43
	Total				264.00 Z
	Add Cess @ 1% on "Z"				2.64
	Cost for one no.				266.64
	Say				266.65
18.46.4	32 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1644	G.I. Union 32 mm nominal bore	each	1.00	141.00	141.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				232.29 W
	Add 1 % Water charges on "W"				2.32
	TOTAL				234.61 X
	Add GST (multiplying factor 0.1405) on "X"				32.96
	TOTAL				267.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.14
	Total				307.71 Z
	Add Cess @ 1% on "Z"				3.08
	Cost for one no.				310.79
	Say				310.80
18.46.5	40 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1645	G.I. Union 40 mm nominal bore	each	1.00	192.00	192.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
	TOTAL				283.29 W
	Add 1 % Water charges on "W"				2.83
	TOTAL				286.12 X
	Add GST (multiplying factor 0.1405) on "X"				40.20
	TOTAL				326.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.95
	Total				375.27 Z
	Add Cess @ 1% on "Z"				3.75
	Cost for one no.				379.03
	Say				379.05
18.46.6	50 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1646	G.I. Union 50 mm nominal bore	each	1.00	249.00	249.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				372.16 W
	Add 1 % Water charges on "W"				3.72
	TOTAL				375.89 X
	Add GST (multiplying factor 0.1405) on "X"				52.81
	TOTAL				428.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.30
	Total				493.00 Z
	Add Cess @ 1% on "Z"				4.93
	Cost for one no.				497.93
	Say				497.95
18.46.7	65 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1647	G.I. Union 65 mm nominal bore	each	1.00	504.00	504.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.15	320.83	48.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				627.16 W
	Add 1 % Water charges on "W"				6.27
	TOTAL				633.44 X
	Add GST (multiplying factor 0.1405) on "X"				89.00
	TOTAL				722.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				108.37
	Total				830.80 Z
	Add Cess @ 1% on "Z"				8.31
	Cost for one no.				839.11
	Say				839.10
18.46.8	80 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1648	G.I. Union 80mm nominal bore	each	1.00	563.00	563.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.15	320.83	48.12
	TOTAL				686.16 W
	Add 1 % Water charges on "W"				6.86
	TOTAL				693.03 X
	Add GST (multiplying factor 0.1405) on "X"				97.37
	TOTAL				790.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.56
	Total				908.96 Z
	Add Cess @ 1% on "Z"				9.09
	Cost for one no.				918.05
	Say				918.05
18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
18.47.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1641	G.I. Union 15 mm nominal bore	each	1.00	30.00	30.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				296.59 W
	Add 1 % Water charges on "W"				2.97
	TOTAL				299.56 X
	Add GST (multiplying factor 0.1405) on "X"				42.09
	TOTAL				341.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.25
	Total				392.90 Z
	Add Cess @ 1% on "Z"				3.93
	Cost for one no.				396.82
	Say				396.80
18.47.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1642	G.I. Union 20 mm nominal bore	each	1.00	49.00	49.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				315.59 W
	Add 1 % Water charges on "W"				3.16
	TOTAL				318.75 X
	Add GST (multiplying factor 0.1405) on "X"				44.78
	TOTAL				363.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.53
	Total				418.06 Z
	Add Cess @ 1% on "Z"				4.18
	Cost for one no.				422.24
	Say				422.25
18.47.3	25 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1643	G.I. Union 25 mm nominal bore	each	1.00	108.00	108.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				374.59 W
	Add 1 % Water charges on "W"				3.75
	TOTAL				378.34 X
	Add GST (multiplying factor 0.1405) on "X"				53.16
	TOTAL				431.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				64.72
	Total				496.22 Z
	Add Cess @ 1% on "Z"				4.96
	Cost for one no.				501.18
	Say				501.20
18.47.4	32 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1644	G.I. Union 32 mm nominal bore	each	1.00	141.00	141.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				407.59 W
	Add 1 % Water charges on "W"				4.08
	TOTAL				411.67 X
	Add GST (multiplying factor 0.1405) on "X"				57.84
	TOTAL				469.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.43
	Total				539.94 Z
	Add Cess @ 1% on "Z"				5.40
	Cost for one no.				545.34
	Say				545.35
18.47.5	40 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1645	G.I. Union 40 mm nominal bore	each	1.00	192.00	192.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	0.33	320.83	105.87
	TOTAL				458.59 W
	Add 1 % Water charges on "W"				4.59
	TOTAL				463.18 X
	Add GST (multiplying factor 0.1405) on "X"				65.08
	TOTAL				528.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.24
	Total				607.50 Z
	Add Cess @ 1% on "Z"				6.07
	Cost for one no.				613.57
	Say				613.55
18.47.6	50 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1646	G.I. Union 50 mm nominal bore	each	1.00	249.00	249.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
	TOTAL				611.21 W
	Add 1 % Water charges on "W"				6.11
	TOTAL				617.33 X
	Add GST (multiplying factor 0.1405) on "X"				86.73
	TOTAL				704.06 Y
	Add 15 % Contractor's profit and overheads on "Y"				105.61
	Total				809.67 Z
	Add Cess @ 1% on "Z"				8.10
	Cost for one no.				817.77
	Say				817.75
18.47.7	65 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1647	G.I. Union 65 mm nominal bore	each	1.00	504.00	504.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
	TOTAL				866.21 W
	Add 1 % Water charges on "W"				8.66
	TOTAL				874.88 X
	Add GST (multiplying factor 0.1405) on "X"				122.92
	TOTAL				997.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				149.67
	Total				1147.47 Z
	Add Cess @ 1% on "Z"				11.47
	Cost for one no.				1158.94
	Say				1158.95
18.47.8	80 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
1648	G.I. Union 80mm nominal bore	each	1.00	563.00	563.00
9988	Carriage of materials and sundries	L.S.	1.82	2.00	3.64
	LABOUR				
0019	Fitter (grade 1)	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
	TOTAL				925.21 W
	Add 1 % Water charges on "W"				9.25
	TOTAL				934.47 X
	Add GST (multiplying factor 0.1405) on "X"				131.29
	TOTAL				1065.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				159.86
	Total				1225.62 Z
	Add Cess @ 1% on "Z"				12.26
	Cost for one no.				1237.88
	Say				1237.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Details of cost for 500 litres MATERIAL				
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	500	5.50	2750.00
9977	Carriage to site	L.S.	179.40	2.00	358.80
9999	Placing at terrace	L.S.	89.70	2.00	179.40
	TOTAL				3288.20 W
	Add 1 % Water charges on "W"				32.88
	TOTAL				3321.08 X
	Add GST (multiplying factor 0.1405) on "X"				466.61
	TOTAL				3787.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				568.15
	Total				4355.85 Z
	Add Cess @ 1% on "Z"				43.56
	Cost for 500 litre				4399.41
	Cost of one litre				8.80
	Say				8.80
18.48A	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately. Details of cost for one no. tank of 500 litres MATERIAL				
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	500	5.50	2750.00
9977	Carriage to site	L.S.	179.40	2.00	358.80
9999	Placing at terrace	L.S.	89.70	2.00	179.40
	TOTAL				3288.20 W
	Add 1 % Water charges on "W"				32.88
	TOTAL				3321.08 X
	Add GST (multiplying factor 0.1405) on "X"				466.61
	TOTAL				3787.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				568.15
	Total				4355.85 Z
	Add Cess @ 1% on "Z"				43.56
	Cost for 500 litre				4399.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one litre				8.80
	Say				8.80
18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931				
	:				
18.49.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
7257	C.P. Brass bibcock 15 mm	each	1.00	290.00	290.00
9988	Carrige of material and fixing charges	L.S.	11.57	2.00	23.14
	TOTAL				313.14 W
	Add 1 % Water charges on "W"				3.13
	TOTAL				316.27 X
	Add GST (multiplying factor 0.1405) on "X"				44.44
	TOTAL				360.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.11
	Total				414.81 Z
	Add Cess @ 1% on "Z"				4.15
	Cost of 1 no.				418.96
	Say				418.95
18.5	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
18.50.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
7258	C.P. Brass long nose bibcock 15 mm	each	1.00	430.00	430.00
9988	Carrige of material and fixing charges	L.S.	16.25	2.00	32.50
	TOTAL				462.50 W
	Add 1 % Water charges on "W"				4.63
	TOTAL				467.13 X
	Add GST (multiplying factor 0.1405) on "X"				65.63
	TOTAL				532.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.91
	Total				612.67 Z
	Add Cess @ 1% on "Z"				6.13
	Cost of 1 no.				618.80
	Say				618.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
18.51.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
7259	C.P. Brass long body bibcock 15 mm	each	1.00	385.00	385.00
9988	Carrige of material and fixing charges	L.S.	13.91	2.00	27.82
	TOTAL				412.82 W
	Add 1 % Water charges on "W"				4.13
	TOTAL				416.95 X
	Add GST (multiplying factor 0.1405) on "X"				58.58
	TOTAL				475.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.33
	Total				546.86 Z
	Add Cess @ 1% on "Z"				5.47
	Cost of 1 no.				552.33
	Say				552.35
18.52	Providing and fixing C.P. brass stop cock (conceaed) of standard design and of approved make conforming to IS:8931.				
18.52.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
7260	C.P. Brass stop cock (conceaed) 15 mm	each	1.00	430.00	430.00
9988	Carrige of material and fixing charges	L.S.	11.57	2.00	23.14
	TOTAL				453.14 W
	Add 1 % Water charges on "W"				4.53
	TOTAL				457.67 X
	Add GST (multiplying factor 0.1405) on "X"				64.30
	TOTAL				521.97 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.30
	Total				600.27 Z
	Add Cess @ 1% on "Z"				6.00
	Cost of 1 no.				606.27
	Say				606.25
18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
18.53.1	15mm nominal bore				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one no.				
	MATERIAL				
7261	C.P. Brass angle valve 15 mm	each	1.00	375.00	375.00
9988	Carriage and fixing charges	L.S.	11.31	2.00	22.62
	TOTAL				397.62 W
	Add 1 % Water charges on "W"				3.98
	TOTAL				401.60 X
	Add GST (multiplying factor 0.1405) on "X"				56.42
	TOTAL				458.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.70
	Total				526.72 Z
	Add Cess @ 1% on "Z"				5.27
	Cost of 1 no.				531.99
	Say				532.00
18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.				
	Details of cost for 1 no.				
	MATERIAL				
593	C.P. Brass Extension Nipple (1/2"x2" size)	each	1.00	40.00	40.00
9999	Sundries	L.S.	2.89	2.00	5.78
	TOTAL				45.78 W
	Add 1 % Water charges on "W"				0.46
	TOTAL				46.24 X
	Add GST (multiplying factor 0.1405) on "X"				6.50
	TOTAL				52.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.91
	Total				60.64 Z
	Add Cess @ 1% on "Z"				0.61
	Cost of 1 no.				61.25
	Say				61.25
18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
18.54.1	15 mm PTMT bib cock				
	Details of cost for 1 no.				
	MATERIAL				
7400	15 mm PTMT bib cock	each	1.00	71.00	71.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				87.12 W
	Add 1 % Water charges on "W"				0.87
	TOTAL				87.99 X
	Add GST (multiplying factor 0.1405) on "X"				12.36
	TOTAL				100.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.05
	Total				115.41 Z
	Add Cess @ 1% on "Z"				1.15
	Cost of 1 no.				116.56
	Say				116.55
18.54.2	15 mm nominal bore, 122mm long, weighing not less than 99 gms				
	Details of cost for 1 no.				
	MATERIAL				
7401	15 mm PTMT bib cockwith flange (fancy)	each	1.00	105.00	105.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				121.12 W
	Add 1 % Water charges on "W"				1.21
	TOTAL				122.33 X
	Add GST (multiplying factor 0.1405) on "X"				17.19
	TOTAL				139.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.93
	Total				160.45 Z
	Add Cess @ 1% on "Z"				1.60
	Cost of 1 no.				162.05
	Say				162.05
18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms				
	Details of cost for 1 no.				
	MATERIAL				
7402	15 mm PTMT bib cock long body with flange	each	1.00	116.00	116.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				132.12 W
	Add 1 % Water charges on "W"				1.32
	TOTAL				133.44 X
	Add GST (multiplying factor 0.1405) on "X"				18.75
	TOTAL				152.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				175.02 Z
	Add Cess @ 1% on "Z"				1.75
	Cost of 1 no.				176.77
	Say				176.75
18.54.4	15 mm nominal bore, 90 mm long, weighing not less than 93 gms				
	Details of cost for 1 no.				
	MATERIAL				
7859	P.T.M.T. Bib cock with nozzle 15mm	each	1.00	154.50	154.50
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				170.62 W
	Add 1 % Water charges on "W"				1.71
	TOTAL				172.33 X
	Add GST (multiplying factor 0.1405) on "X"				24.21
	TOTAL				196.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.48
	Total				226.02 Z
	Add Cess @ 1% on "Z"				2.26
	Cost of 1 no.				228.28
	Say				228.30
18.55	Providing and fixing PTMT stop cock of approved quality and colour.				
18.55.1	15 mm dia PTMT stop cock (male thread)				
	Details of cost for 1 no.				
	MATERIAL				
7403	15 mm dia PTMT stop cock (male thread)	each	1.00	71.00	71.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				87.12 W
	Add 1 % Water charges on "W"				0.87
	TOTAL				87.99 X
	Add GST (multiplying factor 0.1405) on "X"				12.36
	TOTAL				100.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.05
	Total				115.41 Z
	Add Cess @ 1% on "Z"				1.15
	Cost of 1 no.				116.56

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				116.55
18.55.2	20 mm nominal bore, 89 mm long, weighing not less than 88 gms				
	Details of cost for 1 no.				
	MATERIAL				
7405	20 mm dia. PTMT stop cock	each	1.00	97.00	97.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				113.12 W
	Add 1 % Water charges on "W"				1.13
	TOTAL				114.25 X
	Add GST (multiplying factor 0.1405) on "X"				16.05
	TOTAL				130.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.55
	Total				149.85 Z
	Add Cess @ 1% on "Z"				1.50
	Cost of 1 no.				151.35
	Say				151.35
18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms				
	Details of cost for 1 no.				
	MATERIAL				
7861	P.T.M.T. Stop cock (concealed) 15mm	each	1.00	133.50	133.50
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				149.62 W
	Add 1 % Water charges on "W"				1.50
	TOTAL				151.12 X
	Add GST (multiplying factor 0.1405) on "X"				21.23
	TOTAL				172.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.85
	Total				198.20 Z
	Add Cess @ 1% on "Z"				1.98
	Cost of 1 no.				200.18
	Say				200.20
18.56	Providing and fixing PTMT pillar cock of approved quality and colour.				
18.56.1	PTMT pillar cock				
	Details of cost for 1 no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7406	PTMT pillar cock	each	1.00	125.00	125.00
9988	Carriage of materials and fixing charges	L.S.	9.49	2.00	18.98
	TOTAL				143.98 W
	Add 1 % Water charges on "W"				1.44
	TOTAL				145.42 X
	Add GST (multiplying factor 0.1405) on "X"				20.43
	TOTAL				165.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.88
	Total				190.73 Z
	Add Cess @ 1% on "Z"				1.91
	Cost of 1 no.				192.64
	Say				192.65

18.56.2 15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms

Details of cost for 1 no.

	MATERIAL				
7410	PTMT pillar cock (fancy) 15 mm foam flow.	each	1.00	138.00	138.00
9988	Carriage of materials and fixing charges	L.S.	9.49	2.00	18.98
	TOTAL				156.98 W
	Add 1 % Water charges on "W"				1.57
	TOTAL				158.55 X
	Add GST (multiplying factor 0.1405) on "X"				22.28
	TOTAL				180.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.12
	Total				207.95 Z
	Add Cess @ 1% on "Z"				2.08
	Cost of 1 no.				210.03
	Say				210.05

18.57 Providing and fixing PTMT, push cock of approved quality and colour.

18.57.1 15 mm nominal bore, 98 mm long, weighing not less than 75 gms

Details of cost for 1 no.

	MATERIAL				
7407	PTMT push cock 15 mm dia.	each	1.00	62.00	62.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				78.12 W
	Add 1 % Water charges on "W"				0.78
	TOTAL				78.90 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				11.09
	TOTAL				89.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				13.50
	Total				103.48 Z
	Add Cess @ 1% on "Z"				1.03
	Cost of 1 no.				104.52
	Say				104.50
18.57.2	15 mm nominal bore, 80 mm long, weighing not less than 46 gms				
	Details of cost for 1 no.				
	MATERIAL				
7408	PTMT push cock 12 mm dia. 20 mm BSP	each	1.00	57.00	57.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				73.12 W
	Add 1 % Water charges on "W"				0.73
	TOTAL				73.85 X
	Add GST (multiplying factor 0.1405) on "X"				10.38
	TOTAL				84.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.63
	Total				96.86 Z
	Add Cess @ 1% on "Z"				0.97
	Cost of 1 no.				97.83
	Say				97.85
18.58	Providing and fixing PTMT grating of approved quality and colour.				
18.58.1	Circular type				
18.58.1.1	100 mm nominal dia				
	Details of cost for 1 no.				
	MATERIAL				
7409	PTMT grating 100 mm dia.	each	1.00	20.00	20.00
9988	Carriage of materials and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				28.32 W
	Add 1 % Water charges on "W"				0.28
	TOTAL				28.60 X
	Add GST (multiplying factor 0.1405) on "X"				4.02
	TOTAL				32.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				4.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				37.52 Z
	Add Cess @ 1% on "Z"				0.38
	Cost of 1 no.				37.89
	Say				37.90
18.58.1.2	125 mm nominal dia with 25 mm waste hole				
	Details of cost for 1 no.				
	MATERIAL				
7411	125 mm grating with waste hole	each	1.00	30.00	30.00
9988	Carriage of materials and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				38.32 W
	Add 1 % Water charges on "W"				0.38
	TOTAL				38.70 X
	Add GST (multiplying factor 0.1405) on "X"				5.44
	TOTAL				44.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				6.62
	Total				50.76 Z
	Add Cess @ 1% on "Z"				0.51
	Cost of 1 no.				51.27
	Say				51.25
18.58.2	Rectangular type with openable circular lid				
18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating				
	Details of cost for 1 no.				
	MATERIAL				
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	1.00	118.00	118.00
9988	Carriage of materials and fixing charges	L.S.	4.16	2.00	8.32
	TOTAL				126.32 W
	Add 1 % Water charges on "W"				1.26
	TOTAL				127.58 X
	Add GST (multiplying factor 0.1405) on "X"				17.93
	TOTAL				145.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				21.83
	Total				167.33 Z
	Add Cess @ 1% on "Z"				1.67
	Cost of 1 no.				169.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				169.00
18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :				
18.59.1	50 mm dia				
	Details of cost for 10 no. double acting air valves				
	MATERIAL				
7415	Double acting air valve 50 mm	each	10.00	3715.00	37150.00
9977	Carriage of air valves	L.S.	26.00	2.00	52.00
9999	Labour for laying double acting air valve Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.	L.S.	39.00	2.00	78.00
18.30.1	(Rate as per item no 18.30.1 of	each	10.00	132.40	1323.96 A
	SH : Water Supply)				
	TOTAL				38603.96 W
	Add 1 % Water charges on "W-A"	37280.00			372.80
	TOTAL				38976.76 X
	Add GST (multiplying factor 0.1405) on "X-A"	37652.80			5290.22
	TOTAL				44266.97 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	42943.02			6441.45
	Total				50708.43 Z
	Add Cess @ 1% on "Z-A"	49384.47			493.84
	Cost of 10 air valves				51202.27
	Cost of 1 air valve				5120.23
	Say				5120.25
18.59.2	80 mm dia				
	Details of cost for 10 no. double acting air valves				
	MATERIAL				
7416	Double acting air valve 80 mm	each	10.00	4525.00	45250.00
9977	Carriage of air valves	L.S.	26.00	2.00	52.00
9999	Labour for laying double acting air valve Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.	L.S.	39.00	2.00	78.00
18.30.1	(Rate as per item no 18.30.1 of	each	10.00	132.40	1323.96 A
	SH : Water Supply)				
	TOTAL				46703.96 W
	Add 1 % Water charges on "W-A"	45380.00			453.80
	TOTAL				47157.76 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"		45833.80		6439.65
	TOTAL				53597.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		52273.45		7841.02
	Total				61438.42 Z
	Add Cess @ 1% on "Z-A"		60114.47		601.14
	Cost of 10 air valves				62039.57
	Cost of 1 air valve				6203.96
	Say				6203.95
18.59.3	100 mm dia				
	Details of cost for 10 no. double acting air valves				
	MATERIAL				
7417	Double acting air valve 100 mm	each	10.00	5910.00	59100.00
9977	Carriage of air valves	L.S.	26.00	2.00	52.00
9999	Labour for laying double acting air valve Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.	L.S.	52.00	2.00	104.00
18.30.2	(Rate as per item No.18.30.2 Of	each	10.00	214.30	2142.98 A
	SH:Water Supply)				
	TOTAL				61398.98 W
	Add 1 % Water charges on "W-A"		59256.00		592.56
	TOTAL				61991.54 X
	Add GST (multiplying factor 0.1405) on "X-A"		59848.56		8408.72
	TOTAL				70400.26 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		68257.28		10238.59
	Total				80638.85 Z
	Add Cess @ 1% on "Z-A"		78495.88		784.96
	Cost of 10 air valves				81423.81
	Cost of 1 air valve				8142.38
	Say				8142.40
18.6	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :				
18.60.1	80 mm dia nominal bore				
	Details of cost for one no. water meter				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7418	Water meter (including testing charges) 80 mm	each	1.00	2030.00	2030.00
9999	Testing charges	L.S.	130.00	2.00	260.00
9977	Carriage of water meter	L.S.	26.00	2.00	52.00
9999	Labour for laying water meter	L.S.	39.00	2.00	78.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.1	(Rate as per item no 18.30.1 of SH : Water Supply)	each	2.00	132.40	264.79 A
	TOTAL				2684.79 W
	Add 1 % Water charges on "W-A"	2420.00			24.20
	TOTAL				2708.99 X
	Add GST (multiplying factor 0.1405) on "X-A"	2444.20			343.41
	TOTAL				3052.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2787.61			418.14
	Total				3470.54 Z
	Add Cess @ 1% on "Z-A"	3205.75			32.06
	Cost of 1 water meter				3502.60
	Say				3502.60
18.60.2	100 mm dia nominal bore				
	Details of cost for one no. water meter				
	MATERIAL				
7419	Water meter (including testing charges) 100 mm	each	1.00	3143.00	3143.00
9999	Testing charges	L.S.	130.00	2.00	260.00
9977	Carriage of water meter	L.S.	26.00	2.00	52.00
9999	Labour for laying water meter	L.S.	52.00	2.00	104.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.2	(Rate as per item No.18.30.2)	each	2.00	214.30	428.60 A
	TOTAL				3987.60 W
	Add 1 % Water charges on "W-A"	3559.00			35.59
	TOTAL				4023.19 X
	Add GST (multiplying factor 0.1405) on "X-A"	3594.59			505.04
	TOTAL				4528.22 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4099.63			614.94
	Total				5143.17 Z
	Add Cess @ 1% on "Z-A"	4714.57			47.15
	Cost of 1 water meter				5190.32
	Say				5190.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.60.3	150 mm dia nominal bore				
	Details of cost for one no. water meter				
	MATERIAL				
7420	Water meter (including testing charges) 150 mm	each	1.00	4765.00	4765.00
9999	Testing charges	L.S.	156.00	2.00	312.00
9977	Carriage of water meter	L.S.	39.00	2.00	78.00
9999	Labour for laying water meter	L.S.	65.00	2.00	130.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.4	(Rate as per item No.18.30.4 Of SH: Water Supply)	each	2.00	269.80	539.60 A
	TOTAL				5824.60 W
	Add 1 % Water charges on "W-A"	5285.00			52.85
	TOTAL				5877.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	5337.85			749.97
	TOTAL				6627.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6087.82			913.17
	Total				7540.59 Z
	Add Cess @ 1% on "Z-A"	7000.99			70.01
	Cost of 1 water meter				7610.60
	Say				7610.60
18.60.4	200 mm dia nominal bore				
	Details of cost for one no. water meter				
	MATERIAL				
7421	Water meter (including testing charges) 200 mm	each	1.00	5145.00	5145.00
9999	Testing charges	L.S.	156.00	2.00	312.00
9977	Carriage of water meter	L.S.	52.00	2.00	104.00
9999	Labour for laying water meter	L.S.	104.00	2.00	208.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.5	(Rate as per item no 20.47.5 of SH : Water Supply)	each	2.00	297.90	595.79 A
	TOTAL				6364.79 W
	Add 1 % Water charges on "W-A"	5769.00			57.69
	TOTAL				6422.48 X
	Add GST (multiplying factor 0.1405) on "X-A"	5826.69			818.65
	TOTAL				7241.13 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6645.34			996.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				8237.93 Z
	Add Cess @ 1% on "Z-A"		7642.14		76.42
	Cost of 1 water meter				8314.35
	Say				8314.35
18.61	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373 :				
18.61.1	80 mm dia				
	Details of cost for on no. dirt box strainer				
	MATERIAL				
7422	Dirt box srainer 80 mm	each	1.00	2680.00	2680.00
9977	Carriage of dirt box strainer	L.S.	26.00	2.00	52.00
9999	Labour for laying dirt box strainer	L.S.	39.00	2.00	78.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.1	(Rate as per item no 18.30.1 of SH : Water Supply)	each	2.00	132.40	264.79 A
	TOTAL				3074.79 W
	Add 1 % Water charges on "W-A"		2810.00		28.10
	TOTAL				3102.89 X
	Add GST (multiplying factor 0.1405) on "X-A"		2838.10		398.75
	TOTAL				3501.64 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		3236.85		485.53
	Total				3987.17 Z
	Add Cess @ 1% on "Z-A"		3722.38		37.22
	Cost of 1 water meter				4024.40
	Say				4024.40
18.61.2	100 mm dia				
	Details of cost for 1 no. dirt box stainer				
	MATERIAL				
7423	Dirt box srainer 100 mm	each	1.00	4370.00	4370.00
9977	Carriage of dirt box strainer	L.S.	26.00	2.00	52.00
9999	Labour for laying dirt box strainer	L.S.	52.00	2.00	104.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.2	(Rate as per item No.18.30.2 Of SH:Water Supply)	each	2.00	214.30	428.60 A
	TOTAL				4954.60 W
	Add 1 % Water charges on "W-A"		4526.00		45.26
	TOTAL				4999.86 X
	Add GST (multiplying factor 0.1405) on "X-A"		4571.26		642.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5642.12 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5213.52			782.03
	Total				6424.15 Z
	Add Cess @ 1% on "Z-A"	5995.55			59.96
	Cost of 1 dirt box stainer				6484.10
	Say				6484.10
18.61.3	150 mm dia				
	Details of cost for 1 no. dirt box stainer				
	MATERIAL				
7424	Dirt box strainer 150 mm	each	1.00	5540.00	5540.00
9977	Carriage of dirt box strainer	L.S.	39.00	2.00	78.00
9999	Labour for laying dirt box strainer	L.S.	65.00	2.00	130.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.4	(Rate as per item No.18.30.4 Of SH:Water Supply)	each	2.00	269.80	539.60 A
	TOTAL				6287.60 W
	Add 1 % Water charges on "W-A"	5748.00			57.48
	TOTAL				6345.08 X
	Add GST (multiplying factor 0.1405) on "X-A"	5805.48			815.67
	TOTAL				7160.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6621.15			993.17
	Total				8153.92 Z
	Add Cess @ 1% on "Z-A"	7614.32			76.14
	Cost for 1 dirt box stainer				8230.06
	Say				8230.05
18.61.4	200 mm dia				
	Details of cost for one no. dirt box stainer				
	MATERIAL				
7425	Dirt box strainer 200 mm	each	1.00	7860.00	7860.00
9977	Carriage of dirt box strainer	L.S.	52.00	2.00	104.00
9999	Labour for laying dirt box strainer	L.S.	104.00	2.00	208.00
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc.				
18.30.5	(Rate as per item no 20.47.5 of SH : Water Supply)	each	2.00	297.90	595.79 A
	TOTAL				8767.79
	Add 1 % Water charges on "W-A"	8172.00			81.72
	TOTAL				8849.51 X
	Add GST (multiplying factor 0.1405) on "X-A"	8253.72			1159.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				10009.16 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9413.37			1412.01
	Total				11421.17 Z
	Add Cess @ 1% on "Z-A"	10825.37			108.25
	Cost for 10 dirt box stainer				11529.42
	Say				11529.40
18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
18.62.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms				
	Details of cost for one no.				
	MATERIAL				
7495	PTMT Ball Cock 15mm Complete with	each	1.00	100.00	100.00
	Epoxy Coated Aluminium Rod & H.D. Ball				
9988	Carriage of materials and fixing charges	L.S.	21.58	2.00	43.16
	TOTAL				143.16 W
	Add 1 % Water charges on "W"				1.43
	TOTAL				144.59 X
	Add GST (multiplying factor 0.1405) on "X"				20.32
	TOTAL				164.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.74
	Total				189.64 Z
	Add Cess @ 1% on "Z"				1.90
	Cost of one no.				191.54
	Say				191.55
18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms				
	Details of cost for one no.				
	MATERIAL				
7496	PTMT Ball Cock 20mm Complete with	each	1.00	135.00	135.00
	Epoxy Coated Aluminium Rod & H.D. Ball				
9988	Carriage of materials and fixing charges	L.S.	26.91	2.00	53.82
	TOTAL				188.82 W
	Add 1 % Water charges on "W"				1.89
	TOTAL				190.71 X
	Add GST (multiplying factor 0.1405) on "X"				26.79
	TOTAL				217.50 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				32.63
	Total				250.13 Z
	Add Cess @ 1% on "Z"				2.50
	Cost of one no.				252.63
	Say				252.65
18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440 gms				
	Details of cost for one no.				
	MATERIAL				
7497	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	1.00	290.00	290.00
9988	Carriage of materials and fixing charges	L.S.	32.24	2.00	64.48
	TOTAL				354.48 W
	Add 1 % Water charges on "W"				3.54
	TOTAL				358.02 X
	Add GST (multiplying factor 0.1405) on "X"				50.30
	TOTAL				408.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				61.25
	Total				469.58 Z
	Add Cess @ 1% on "Z"				4.70
	Cost of one no.				474.27
	Say				474.25
18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms				
	Details of cost for one no.				
	MATERIAL				
7498	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	1.00	480.00	480.00
9988	Carriage of materials and fixing charges	L.S.	32.24	2.00	64.48
	TOTAL				544.48 W
	Add 1 % Water charges on "W"				5.44
	TOTAL				549.92 X
	Add GST (multiplying factor 0.1405) on "X"				77.26
	TOTAL				627.19 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				94.08
	Total				721.27 Z
	Add Cess @ 1% on "Z"				7.21
	Cost of one no.				728.48
	Say				728.50
18.62.5	50 mm nominal bore, 242mm long, weighing not less than 1240 gms				
	Details of cost for one no.				
	MATERIAL				
7499	PTMT Ball Cock 50mm Complete with	each	1.00	870.00	870.00
	Epoxy Coated Aluminium Road & H.D. Ball				
9988	Carriage of materials and fixing charges	L.S.	32.24	2.00	64.48
	TOTAL				934.48 W
	Add 1 % Water charges on "W"				9.34
	TOTAL				943.82 X
	Add GST (multiplying factor 0.1405) on "X"				132.61
	TOTAL				1076.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.46
	Total				1237.90 Z
	Add Cess @ 1% on "Z"				12.38
	Cost of one no.				1250.28
	Say				1250.30
18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms				
	Details of cost for one no.				
	MATERIAL				
7500	PTMT Angle Stop cock with Flange 15mm	each	1.00	100.00	100.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				116.12 W
	Add 1 % Water charges on "W"				1.16
	TOTAL				117.28 X
	Add GST (multiplying factor 0.1405) on "X"				16.48
	TOTAL				133.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				153.82 Z
	Add Cess @ 1% on "Z"				1.54
	Cost of one no.				155.36
	Say				155.35
18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms				
	Details of cost for one no.				
	MATERIAL				
7501	PTMT Swiveling shower 15mm	each	1.00	70.00	70.00
9988	Carriage of materials and fixing charges	L.S.	6.76	2.00	13.52
	TOTAL				83.52 W
	Add 1 % Water charges on "W"				0.84
	TOTAL				84.36 X
	Add GST (multiplying factor 0.1405) on "X"				11.85
	TOTAL				96.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.43
	Total				110.64 Z
	Add Cess @ 1% on "Z"				1.11
	Cost of one no.				111.74
	Say				111.75
18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.				
	Details of cost for one no				
	MATERIAL				
7509	PTMT Soap Dish/Holder 138x102x75mm	each	1.00	84.00	84.00
9988	Carriage of materials and fixing charges	L.S.	6.76	2.00	13.52
	TOTAL				97.52 W
	Add 1 % Water charges on "W"				0.98
	TOTAL				98.50 X
	Add GST (multiplying factor 0.1405) on "X"				13.84
	TOTAL				112.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.85
	Total				129.18 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				1.29
	Cost of one no				130.48
	Say				130.50
18.66	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 :				
18.66.1	Up to 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing upto 300mm dia	quintal	1.00	5190.00	5190.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				5495.84 W
	Add 1 % Water charges on "W-A"	5199.43			51.99
	TOTAL				5547.83 X
	Add GST (multiplying factor 0.1405) on "X"	5251.43			737.83
	TOTAL				6285.66 Y
	Add 15 % Contractor's profit and overheads on "Y"	5989.25			898.39
	Total				7184.05 Z
	Add Cess @ 1% on "Z"	6887.64			68.88
	Cost of 1 quintal				7252.92
	Say				7252.90
18.66.2	Above 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300mm dia	quintal	1.00	6200	6200.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.33783	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				6505.84 W
	Add 1 % Water charges on "W-A"	6209.43			62.09
	TOTAL				6567.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	6271.53			881.15
	TOTAL				7449.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	7152.68			1072.90
	Total				8521.98 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		8225.58		82.26
	Cost of 1 quintal				8604.24
	Say				8604.25
18.67	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382 :				
18.67.1	Up to 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7710	S&S Centrifugally (Spun) C.I. Pipe specials	quintal	1.00	8571.00	8571.00
	suitable for mechanical joint as per I.S. 13382 upto 300mm dia				
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				8876.84 W
	Add 1 % Water charges on "W-A"	8580.43			85.80
	TOTAL				8962.64 X
	Add GST (multiplying factor 0.1405) on "X-A"	8666.24			1217.61
	TOTAL				10180.25 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9883.84			1482.58
	Total				11662.82 Z
	Add Cess @ 1% on "Z-A"	11366.42			113.66
	Cost of 1 quintal				11776.49
	Say				11776.50
18.67.2	Above 300 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7711	S&S Centrifugally (Spun) C.I. Pipe Specials	quintal	1.00	9048.00	9048.00
	suitable for mechanical joint as per IS 13382 over 300mm dia				
2309	Carriage of Cast iron fittings Labour for Laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				9353.84 W
	Add 1 % Water charges on "W-A"	9057.43			90.57
	TOTAL				9444.41 X
	Add GST (multiplying factor 0.1405) on "X-A"	9148.01			1285.30
	TOTAL				10729.71 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	10433.30			1565.00
	Total				12294.70 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		11998.30		119.98
	Cost of 1 quintal				12414.69
	Say				12414.70
18.68	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523 :				
18.68.1	Up to 600 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7682	Ductile Iron K - 12 specials suitable for push on jointing upto 600 mm dia	quintal	1.00	12400.00	12400.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				12705.84 W
	Add 1 % Water charges on "W-A"	12409.43			124.09
	TOTAL				12829.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	12533.53			1760.96
	TOTAL				14590.89 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	14294.49			2144.17
	Total				16735.07 Z
	Add Cess @ 1% on "Z-A"	16438.66			164.39
	Cost of 1 quintal				16899.45
	Say				16899.45
18.68.2	Above 600 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600mm dia	quintal	1.00	17200.00	17200.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				17505.84
	Add 1 % Water charges on "W-A"	17209.43			172.09
	TOTAL				17677.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	17381.53			2442.10
	TOTAL				20120.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	19823.63			2973.54
	Total				23093.58 Z
	Add Cess @ 1% on "Z-A"	22797.18			227.97
	Cost of 1 quintal				23321.55
	Say				23321.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.69	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :				
18.69.1	Up to 600 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 upto 600mm dia	quintal	1.00	13050.00	13050.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				13355.84
	Add 1 % Water charges on "W-A"	13059.43			130.59
	TOTAL				13486.43 X
	Add GST (multiplying factor 0.1405) on "X-A"	13190.03			1853.20
	TOTAL				15339.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	15043.23			2256.48
	Total				17596.11 Z
	Add Cess @ 1% on "Z-A"	17299.71			173.00
	Cost of 1 quintal				17769.11
	Say				17769.10
18.69.2	Above 600 mm dia				
	Details of cost for 1 quintal				
	MATERIAL				
7685	Ductile Iron Specials suitable for mechancial jointing as per I.S. 9523 over 600mm dia	quintal	1.00	18750.00	18750.00
2309	Carriage of Cast iron fittings Labour for laying	tonne	0.10	94.34	9.43
18.24	Rate as per Item Number 18.24 of SH: Water Supply	quintal	1.00	296.40	296.40 A
	TOTAL				19055.84 W
	Add 1 % Water charges on "W-A"	18759.43			187.59
	TOTAL				19243.43 X
	Add GST (multiplying factor 0.1405) on "X-A"	18947.03			2662.06
	TOTAL				21905.49 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	21609.09			3241.36
	Total				25146.85 Z
	Add Cess @ 1% on "Z-A"	24850.45			248.50
	Cost of 1 quintal				25395.36
	Say				25395.35
18.70	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.70.1	100 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7666	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 100mm dia	each	50.00	29.00	1450.00
	Labour				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0020	Assistant Fitter or 2nd class Fitter	day	1.00	374.50	374.50
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				2621.33 W
	Add 1 % Water charges on "W"				26.21
	TOTAL				2647.54 X
	Add GST (multiplying factor 0.1405) on "X"				371.98
	TOTAL				3019.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				452.93
	Total				3472.45 Z
	Add Cess @ 1% on "Z"				34.72
	Cost of 50 joints				3507.18
	Cost of 1 joint				70.14
	Say				70.15
18.70.2	150 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7668	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	each	50.00	36.00	1800.00
	Labour				
0019	Fitter (grade 1)	day	1.50	476.00	714.00
0020	Assistant Fitter or 2nd class Fitter	day	1.50	374.50	561.75
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				4038.24 W
	Add 1 % Water charges on "W"				40.38
	TOTAL				4078.62 X
	Add GST (multiplying factor 0.1405) on "X"				573.05
	TOTAL				4651.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				697.75
	Total				5349.42 Z
	Add Cess @ 1% on "Z"				53.49
	Cost of 50 joints				5402.91
	Cost of 1 joint				108.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				108.05
18.70.3	200 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7669	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	each	50.00	63.00	3150.00
	LABOUR				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0020	Assistant Fitter or 2nd class Fitter	day	2.00	374.50	749.00
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				6134.32 W
	Add 1 % Water charges on "W"				61.34
	TOTAL				6195.66 X
	Add GST (multiplying factor 0.1405) on "X"				870.49
	TOTAL				7066.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				1059.92
	Total				8126.08 Z
	Add Cess @ 1% on "Z"				81.26
	Cost of 50 joints				8207.34
	Cost of 1 joint				164.15
	Say				164.15
18.70.4	250 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7670	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	each	50.00	74.00	3700.00
	LABOUR				
0019	Fitter (grade 1)	day	2.50	476.00	1190.00
0020	Assistant Fitter or 2nd class Fitter	day	2.50	374.50	936.25
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				7430.40 W
	Add 1 % Water charges on "W"				74.30
	TOTAL				7504.70 X
	Add GST (multiplying factor 0.1405) on "X"				1054.41
	TOTAL				8559.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				1283.87
	Total				9842.98 Z
	Add Cess @ 1% on "Z"				98.43
	Cost of 50 joints				9941.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 joint				198.83
	Say				198.85
18.70.5	300 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7671	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 300mm dia	each	50.00	110.00	5500.00
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0020	Assistant Fitter or 2nd class Fitter	day	3.00	374.50	1123.50
0017	Beldar	day	6.00	320.83	1924.98
	TOTAL				9976.48 W
	Add 1 % Water charges on "W"				99.76
	TOTAL				10076.24 X
	Add GST (multiplying factor 0.1405) on "X"				1415.71
	TOTAL				11491.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				1723.79
	Total				13215.75 Z
	Add Cess @ 1% on "Z"				132.16
	Cost of 50 joints				13347.91
	Cost of 1 joint				266.96
	Say				266.95
18.70.6	350 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7672	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 350mm dia	each	50.00	126.00	6300.00
	LABOUR				
0019	Fitter (grade 1)	day	3.00	476.00	1428.00
0020	Assistant Fitter or 2nd class Fitter	day	3.00	374.50	1123.50
0017	Beldar	day	6.00	320.83	1924.98
	TOTAL				10776.48 W
	Add 1 % Water charges on "W"				107.76
	TOTAL				10884.24 X
	Add GST (multiplying factor 0.1405) on "X"				1529.24
	TOTAL				12413.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				1862.02
	Total				14275.50 Z
	Add Cess @ 1% on "Z"				142.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joints				14418.26
	Cost of 1 joint				288.37
	Say				288.35
18.70.7	400 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7673	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 400mm dia	each	50.00	230.00	11500.00
	LABOUR				
0019	Fitter (grade 1)	day	4.00	476.00	1904.00
0020	Assistant Fitter or 2nd class Fitter	day	4.00	374.50	1498.00
0017	Beldar	day	8.00	320.83	2566.64
	TOTAL				17468.64 W
	Add 1 % Water charges on "W"				174.69
	TOTAL				17643.33 X
	Add GST (multiplying factor 0.1405) on "X"				2478.89
	TOTAL				20122.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				3018.33
	Total				23140.55 Z
	Add Cess @ 1% on "Z"				231.41
	Cost of 50 joints				23371.95
	Cost of 1 joint				467.44
	Say				467.45
18.70.8	450 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7674	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 450mm dia	each	50.00	270.00	13500.00
	LABOUR				
0019	Fitter (grade 1)	day	4.50	476.00	2142.00
0020	Assistant Fitter or 2nd class Fitter	day	4.50	374.50	1685.25
0017	Beldar	day	9.00	320.83	2887.47
	TOTAL				20214.72 W
	Add 1 % Water charges on "W"				202.15
	TOTAL				20416.87 X
	Add GST (multiplying factor 0.1405) on "X"				2868.57
	TOTAL				23285.44 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				3492.82
	Total				26778.25 Z
	Add Cess @ 1% on "Z"				267.78
	Cost of 50 joints				27046.04
	Cost of 1 joint				540.92
	Say				540.90
18.70.9	500 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7675	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 500mm dia	each	50.00	290.00	14500.00
	LABOUR				
0019	Fitter (grade 1)	day	4.75	476.00	2261.00
0020	Assistant Fitter or 2nd class Fitter	day	4.75	374.50	1778.88
0017	Beldar	day	9.50	320.83	3047.89
	TOTAL				21587.76 W
	Add 1 % Water charges on "W"				215.88
	TOTAL				21803.64 X
	Add GST (multiplying factor 0.1405) on "X"				3063.41
	TOTAL				24867.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				3730.06
	Total				28597.11 Z
	Add Cess @ 1% on "Z"				285.97
	Cost of 50 joints				28883.08
	Cost of 1 joint				577.66
	Say				577.65
18.70.10	600 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7676	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 600mm dia	each	50.00	365.00	18250.00
	LABOUR				
0019	Fitter (grade 1)	day	6.50	476.00	3094.00
0020	Assistant Fitter or 2nd class Fitter	day	6.50	374.50	2434.25
0017	Beldar	day	13.00	320.83	4170.79
	TOTAL				27949.04 W
	Add 1 % Water charges on "W"				279.49
	TOTAL				28228.53 X
	Add GST (multiplying factor 0.1405) on "X"				3966.11
	TOTAL				32194.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				4829.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				37023.83 Z
	Add Cess @ 1% on "Z"				370.24
	Cost of 50 joints				37394.07
	Cost of 1 joint				747.88
	Say				747.90
18.70.11	650 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7677	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 700mm dia	each	50.00	550.00	27500.00
	LABOUR				
0019	Fitter (grade 1)	day	7.70	476.00	3665.20
0020	Assistant Fitter or 2nd class Fitter	day	7.70	374.50	2883.65
0017	Beldar	day	15.40	320.83	4940.78
	TOTAL				38989.63 W
	Add 1 % Water charges on "W"				389.90
	TOTAL				39379.53 X
	Add GST (multiplying factor 0.1405) on "X"				5532.82
	TOTAL				44912.35 Y
	Add 15 % Contractor's profit and overheads on "Y"				6736.85
	Total				51649.20 Z
	Add Cess @ 1% on "Z"				516.49
	Cost of 50 joints				52165.70
	Cost of 1 joint				1043.31
	Say				1043.30
18.70.12	700 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7678	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 750mm dia	each	50.00	660.00	33000.00
	LABOUR				
0019	Fitter (grade 1)	day	7.70	476.00	3665.20
0020	Assistant Fitter or 2nd class Fitter	day	7.70	374.50	2883.65
0017	Beldar	day	15.40	320.83	4940.78
	TOTAL				44489.63 W
	Add 1 % Water charges on "W"				444.90
	TOTAL				44934.53 X
	Add GST (multiplying factor 0.1405) on "X"				6313.30
	TOTAL				51247.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				7687.17
	Total				58935.00 Z
	Add Cess @ 1% on "Z"				589.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joints				59524.35
	Cost of 1 joint				1190.49
	Say				1190.50
18.70.13	800 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7679	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 800mm dia	each	50.00	725.00	36250.00
	LABOUR				
0019	Fitter (grade 1)	day	8.50	476.00	4046.00
0020	Assistant Fitter or 2nd class Fitter	day	8.50	374.50	3183.25
0017	Beldar	day	17.00	320.83	5454.11
	TOTAL				48933.36 W
	Add 1 % Water charges on "W"				489.33
	TOTAL				49422.69 X
	Add GST (multiplying factor 0.1405) on "X"				6943.89
	TOTAL				56366.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				8454.99
	Total				64821.57 Z
	Add Cess @ 1% on "Z"				648.22
	Cost of 50 joints				65469.79
	Cost of 1 joint				1309.40
	Say				1309.40
18.70.14	900 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7680	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 900mm dia	each	50.00	960.00	48000.00
	LABOUR				
0019	Fitter (grade 1)	day	10.00	476.00	4760.00
0020	Assistant Fitter or 2nd class Fitter	day	10.00	374.50	3745.00
0017	Beldar	day	20.00	320.83	6416.60
	TOTAL				62921.60 W
	Add 1 % Water charges on "W"				629.22
	TOTAL				63550.82 X
	Add GST (multiplying factor 0.1405) on "X"				8928.89
	TOTAL				72479.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				10871.96
	Total				83351.66 Z
	Add Cess @ 1% on "Z"				833.52
	Cost of 50 joints				84185.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 joint				1683.70
	Say				1683.70
18.70.15	1000 mm dia pipes				
	Details of cost for 50 Joints				
	MATERIAL				
7681	Ruber Gaskets Conforming to I.S 5382 of S.B.R quality 1000mm dia	each	50.00	1145.00	57250.00
	LABOUR				
0019	Fitter (grade 1)	day	11.00	476.00	5236.00
0020	Assistant Fitter or 2nd class Fitter	day	11.00	374.50	4119.50
0017	Beldar	day	22.00	320.83	7058.26
	TOTAL				73663.76 W
	Add 1 % Water charges on "W"				736.64
	TOTAL				74400.40 X
	Add GST (multiplying factor 0.1405) on "X"				10453.26
	TOTAL				84853.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				12728.05
	Total				97581.70 Z
	Add Cess @ 1% on "Z"				975.82
	Cost of 50 joints				98557.52
	Cost of 1 joint				1971.15
	Say				1971.15
18.71	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) :				
18.71.1	100 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	100 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 27.00 Kg				
	Weight of 5 m pipes 27.00x5 = 135.00 Kg				
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100mm dia	metre	5.00	1310.00	6550.00
2319	Carriage of Spun iron S & S pipes 100 mm dia	100	0.05	231.98	11.60
18.23	Labour for laying Rate same as per item no 18.23 of SH: Water Supply	quintal	1.35	157.10	212.08 A
	TOTAL				6773.68 W
	Add 1 % Water charges on "W-A"	6561.60			65.62
	TOTAL				6839.30 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add GST (multiplying factor 0.1405) on "X-A"		6627.21		931.12	
	TOTAL				7770.42	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		7558.34		1133.75	
	Total				8904.17	Z
	Add Cess @ 1% on "Z-A"		8692.09		86.92	
	Cost of 5 metre				8991.09	
	Cost of metre				1798.22	
	Say				1798.20	
18.71.2	150 mm dia C.I. Double Flanged Pipe					
	Details of cost for 5 metre					
	MATERIAL					
	150 mm dia. cast iron pipes double flanged					
	Weight of 1 m pipes = 44.10 Kg					
	Weight of 5 m pipes 44.10x5 = 220.50 Kg					
7713	Screwed double flanged centrifugally cast	metre	5.00	2048.00	10240.00	
	(spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150mm dia					
2321	Carriage of Spun iron S & S pipes 150 mm dia	100	0.05	386.63	19.33	
	Labour for laying					
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	2.21	157.10	347.19	A
	TOTAL				10606.52	W
	Add 1 % Water charges on "W-A"		10259.33		102.59	
	TOTAL				10709.11	X
	Add GST (multiplying factor 0.1405) on "X-A"		10361.92		1455.85	
	TOTAL				12164.96	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		11817.78		1772.67	
	Total				13937.63	Z
	Add Cess @ 1% on "Z-A"		13590.44		135.90	
	Cost of 5 metre				14073.53	
	Cost of metre				2814.71	
	Say				2814.70	
18.71.3	200 mm dia C.I. Double Flanged Pipe					
	Details of cost for 5 metre					
	MATERIAL					
	200 mm dia. cast iron pipes double flanged					
	Weight of 1 m pipes = 63.50 Kg					
	Weight of 5 m pipes 63.50x5 = 317.50 Kg					
7714	Screwed double flanged centrifugally cast	metre	5.00	3238.00	16190.00	
	(spun) C.I. Pipe of Class B conforming to					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2322	I.S. 1536, - 200mm dia Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100	0.05	628.92	31.45
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	3.18	157.10	499.57 A
	TOTAL				16721.02 W
	Add 1 % Water charges on "W-A"	16221.45			162.21
	TOTAL				16883.23 X
	Add GST (multiplying factor 0.1405) on "X-A"	16383.66			2301.90
	TOTAL				19185.14 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18685.56			2802.83
	Total				21987.97 Z
	Add Cess @ 1% on "Z-A"	21488.40			214.88
	Cost of 5 metre				22202.86
	Cost of metre				4440.57
	Say				4440.55
18.71.4	250 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	250 mm dia. cast iron pipes double flanged Weight of 1 m pipes = 85.30 Kg Weight of 5 m pipes 85.30x5 = 426.50 Kg				
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250mm dia	metre	5.00	3905.00	19525.00
2323	Carriage of Spun iron S & S pipes 250 mm dia Labour for laying	100 metre	0.05	893.73	44.69
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	4.27	157.10	670.81 A
	TOTAL				20240.50 W
	Add 1 % Water charges on "W-A"	19569.69			195.70
	TOTAL				20436.19 X
	Add GST (multiplying factor 0.1405) on "X-A"	19765.38			2777.04
	TOTAL				23213.23 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	22542.42			3381.36
	Total				26594.59 Z
	Add Cess @ 1% on "Z-A"	25923.78			259.24
	Cost of 5 metre				26853.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per metre				5370.77
	Say				5370.75
18.71.5	300 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	300 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 110.00 Kg				
	Weight of 5 m pipes 110.00x5 = 550.00 Kg				
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300mm dia	metre	5.00	4990.00	24950.00
2324	Carriage of Spun iron S & S pipes	100 metre	0.05	1104.66	55.23
	300 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	5.50	157.10	864.04 A
	TOTAL				25869.27 W
	Add 1 % Water charges on "W-A"	25005.23			250.05
	TOTAL				26119.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	25255.29			3548.37
	TOTAL				29667.69 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	28803.65			4320.55
	Total				33988.24 Z
	Add Cess @ 1% on "Z-A"	33124.20			331.24
	Cost of 5 metre				34319.48
	Cost per metre				6863.90
	Say				6863.90
18.71.6	350 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	350 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 135.70 Kg				
	Weight of 5 m pipes 135.70x5 = 678.50 Kg				
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350mm dia	metre	5.00	6286.00	31430.00
2325	Carriage of Spun iron S & S pipes	100 metre	0.05	1546.52	77.33
	350 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	6.79	157.10	1066.70 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				32574.02 W
	Add 1 % Water charges on "W-A"	31507.33			315.07
	TOTAL				32889.10 X
	Add GST (multiplying factor 0.1405) on "X-A"	31822.40			4471.05
	TOTAL				37360.14 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	36293.45			5444.02
	Total				42804.16 Z
	Add Cess @ 1% on "Z-A"	41737.46			417.37
	Cost of 5 metre				43221.53
	Cost per metre				8644.31
	Say				8644.30
18.71.7	400 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	400 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 166.80 Kg				
	Weight of 5 m pipes 166.80x5 = 834.00 Kg				
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400mm dia	metre	5.00	8143.00	40715.00
2326	Carriage of Spun iron S & S pipes	100 metre	0.05	2108.89	105.44
	400 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	8.34	157.10	1310.20 A
	TOTAL				42130.64 W
	Add 1 % Water charges on "W-A"	40820.44			408.20
	TOTAL				42538.85 X
	Add GST (multiplying factor 0.1405) on "X-A"	41228.65			5792.63
	TOTAL				48331.47 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	47021.27			7053.19
	Total				55384.66 Z
	Add Cess @ 1% on "Z-A"	54074.47			540.74
	Cost of 5 metre				55925.41
	Cost per metre				11185.08
	Say				11185.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.71.8	450 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	450 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 201.60 Kg				
	Weight of 5 m pipes 201.60x5 = 1008.00 Kg				
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450mm dia	metre	5.00	10381.00	51905.00
2327	Carriage of Spun iron S & S pipes	100 metre	0.05	2577.54	128.88
	450 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	10.08	157.10	1583.55 A
	TOTAL				53617.43 W
	Add 1 % Water charges on "W-A"	52033.88			520.34
	TOTAL				54137.76 X
	Add GST (multiplying factor 0.1405) on "X-A"	52554.22			7383.87
	TOTAL				61521.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	59938.08			8990.71
	Total				70512.34 Z
	Add Cess @ 1% on "Z-A"	68928.80			689.29
	Cost of 5 metre				71201.63
	Cost per metre				14240.33
	Say				14240.35
18.71.9	500 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	500 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 234.80 Kg				
	Weight of 5 m pipes 234.80x5 = 1174.00 Kg				
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500mm dia	metre	5.00	12914.00	64570.00
2328	Carriage of Spun iron S & S pipes	100 metre	0.05	2577.54	128.88
	500 mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	11.74	157.10	1844.33 A
	TOTAL				66543.21 W
	Add 1 % Water charges on "W-A"	64698.88			646.99

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				67190.20 X
	Add GST (multiplying factor 0.1405) on "X-A"	65345.87			9181.09
	TOTAL				76371.29 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	74526.96			11179.04
	Total				87550.33 Z
	Add Cess @ 1% on "Z-A"	85706.00			857.06
	Cost of 5 metre				88407.39
	Cost per metre				17681.48
	Say				17681.50
18.71.10	600 mm dia C.I. Double Flanged Pipe				
	Details of cost for 5 metre				
	MATERIAL				
	600 mm dia. cast iron pipes double flanged				
	Weight of 1 m pipes = 315.30 Kg				
	Weight of 5 m pipes 315.30x5 = 1576.50 Kg				
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600mm dia	metre	5.00	17905.00	89525.00
2329	Carriage of Spun iron S & S pipes	100 metre	0.05	3866.30	193.32
	600mm dia				
	Labour for laying				
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	15.77	157.10	2477.44 A
	TOTAL				92195.75 W
	Add 1 % Water charges on "W-A"	89718.32			897.18
	TOTAL				93092.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	90615.50			12731.48
	TOTAL				105824.41 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	103346.98			15502.05
	Total				121326.46 Z
	Add Cess @ 1% on "Z-A"	118849.02			1188.49
	Cost of 5 metre				122514.95
	Cost per metre				24502.99
	Say				24503.00
18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
18.72.1	100 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	100mm dia. cast iron pipes (in 5.5 m lengths) Weight of 1 m pipes = 15.39 Kg Weight of 10m pipes 15.39x10 = 153.90 Kg				
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	metre	10.00	800.00	8000.00
2343	Carriage of ductile iron pipes (k7) 100 mm dia Labour for laying	100 metre	0.10	231.98	23.20
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	1.54	157.10	241.93 A
	TOTAL				8265.13 W
	Add 1 % Water charges on "W-A"	8023.20			80.23
	TOTAL				8345.36 X
	Add GST (multiplying factor 0.1405) on "X-A"	8103.43			1138.53
	TOTAL				9483.89 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9241.96			1386.29
	Total				10870.19 Z
	Add Cess @ 1% on "Z-A"	10628.26			106.28
	Cost of 10 metre				10976.47
	Cost per metre				1097.65
	Say				1097.65
18.72.2	150 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	150 mm dia. cast iron pipes (in 5.5 m lengths) Weight of 1 m pipes = 22.750 Kg Weight of 10m pipes 22.750x10 = 227.50 Kg				
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	metre	10.00	1140.00	11400.00
2344	Carriage of cast iron pipes 150 mm dia	100 metre	0.10	386.63	38.66
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	2.28	157.10	358.18 A
	TOTAL				11796.85 W
	Add 1 % Water charges on "W-A"	11438.66			114.39
	TOTAL				11911.23 X
	Add GST (multiplying factor 0.1405) on "X-A"	11553.05			1623.20
	TOTAL				13534.44 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	13176.25			1976.44
	Total				15510.87 Z
	Add Cess @ 1% on "Z-A"	15152.69			151.53
	Cost of 10 metre				15662.40
	Cost per metre				1566.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1566.25
18.72.3	200 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	200 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 30.090 Kg				
	Weight of 10m pipes 30.090x10 = 300.90 Kg				
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	metre	10.00	1400.00	14000.00
2345	Carriage of cast iron pipes 200 mm dia Labour for laying	100 metre	0.10	628.92	62.89
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	3.01	157.10	472.87 A
	TOTAL				14535.76 W
	Add 1 % Water charges on "W-A"	14062.89			140.63
	TOTAL				14676.39 X
	Add GST (multiplying factor 0.1405) on "X-A"	14203.52			1995.59
	TOTAL				16671.98 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	16199.12			2429.87
	Total				19101.85 Z
	Add Cess @ 1% on "Z-A"	18628.98			186.29
	Cost of 10 metre				19288.14
	Cost per metre				1928.81
	Say				1928.80
18.72.4	250 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	250mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 39.310 Kg				
	Weight of 10m pipes 39.310x10 = 393.10 Kg				
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	metre	10.00	1800.00	18000.00
2346	Carriage of cast iron pipes 250 mm dia Labour for laying	100 metre	0.10	893.73	89.37
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	3.93	157.10	617.40 A
	TOTAL				18706.77 W
	Add 1 % Water charges on "W-A"	18089.37			180.89
	TOTAL				18887.66 X
	Add GST (multiplying factor 0.1405) on "X-A"	18270.27			2566.97
	TOTAL				21454.63 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"	20837.24			3125.59
	Total				24580.22 Z
	Add Cess @ 1% on "Z-A"	23962.82			239.63
	Cost of 10 metre				24819.85
	Cost per metre				2481.98
	Say				2482.00
18.72.5	300 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	300mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 48.400 Kg				
	Weight of 10m pipes 48.400x10 = 484.00 Kg				
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	metre	10.00	2250.00	22500.00
2347	Carriage of cast iron pipes 300 mm dia Labour for laying	100 metre	0.10	1104.66	110.47
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	4.84	157.10	760.35 A
	TOTAL				23370.82 W
	Add 1 % Water charges on "W-A"	22610.47			226.10
	TOTAL				23596.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	22836.57			3208.54
	TOTAL				26805.46 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	26045.11			3906.77
	Total				30712.23 Z
	Add Cess @ 1% on "Z-A"	29951.87			299.52
	Cost of 10 metre				31011.75
	Cost per metre				3101.17
	Say				3101.15
18.72.6	350 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	350mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 66.020 Kg				
	Weight of 10m pipes 66.020x10 = 660.20 Kg				
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	metre	10.00	2650.00	26500.00
2348	Carriage of cast iron pipes 350 mm dia Labour for laying	100 metre	0.10	1546.52	154.65
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	6.60	157.10	1036.85 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				27691.50	W
	Add 1 % Water charges on "W-A"		26654.65		266.55	
	TOTAL				27958.05	X
	Add GST (multiplying factor 0.1405) on "X-A"		26921.20		3782.43	
	TOTAL				31740.47	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		30703.63		4605.54	
	Total				36346.02	Z
	Add Cess @ 1% on "Z-A"		35309.17		353.09	
	Cost of 10 metre				36699.11	
	Cost per metre				3669.91	
	Say				3669.90	
18.72.7	400 mm dia Ductile Iron Class K-7 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	400mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 78.280 Kg					
	Weight of 10m pipes 78.280x10 = 782.80 Kg					
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	metre	10.00	3175.00	31750.00	
2349	Carriage of cast iron pipes 400 mm dia Labour for laying	100 metre	0.10	2108.89	210.89	
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	7.83	157.10	1230.08	A
	TOTAL				33190.97	W
	Add 1 % Water charges on "W-A"		31960.89		319.61	
	TOTAL				33510.58	X
	Add GST (multiplying factor 0.1405) on "X-A"		32280.50		4535.41	
	TOTAL				38045.99	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		36815.91		5522.39	
	Total				43568.37	Z
	Add Cess @ 1% on "Z-A"		42338.29		423.38	
	Cost of 10 metre				43991.76	
	Cost per metre				4399.18	
	Say				4399.20	
18.72.8	450 mm dia Ductile Iron Class K-7 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	450mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 91.410 Kg					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of 10m pipes 91.410x10 = 914.10 Kg				
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	metre	10.00	3852.00	38520.00
2350	Carriage of cast iron pipes 450 mm dia Labour for laying	100 metre	0.10	2577.54	257.75
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	9.14	157.10	1435.88 A
	TOTAL				40213.63 W
	Add 1 % Water charges on "W-A"	38777.75			387.78
	TOTAL				40601.41 X
	Add GST (multiplying factor 0.1405) on "X-A"	39165.53			5502.76
	TOTAL				46104.16 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	44668.29			6700.24
	Total				52804.41 Z
	Add Cess @ 1% on "Z-A"	51368.53			513.69
	Cost of 10 metre				53318.09
	Cost per metre				5331.81
	Say				5331.80
18.72.9	500 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	500mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 106.640 Kg				
	Weight of 10m pipes 106.640x10 = 1066.40 Kg				
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	metre	10.00	4350.00	43500.00
2351	Carriage of cast iron pipes 500 mm dia Labour for laying	100 metre	0.10	2577.54	257.75
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	10.66	157.10	1674.67 A
	TOTAL				45432.42 W
	Add 1 % Water charges on "W-A"	43757.75			437.58
	TOTAL				45870.00 X
	Add GST (multiplying factor 0.1405) on "X-A"	44195.33			6209.44
	TOTAL				52079.44 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	50404.78			7560.72
	Total				59640.16 Z
	Add Cess @ 1% on "Z-A"	57965.49			579.65
	Cost of 10 metre				60219.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per metre				6021.98
	Say				6022.00
18.72.10	600 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	600mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 138.61 Kg				
	Weight of 10m pipes 138.61x10				
	= 1386.10 Kg				
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	10.00	5600.00	56000.00
2352	Carriage of cast iron pipes 600 mm dia Labour for laying	100 metre	0.10	3866.30	386.63
18.23	Rate same as per item no 18.23 of SH: Water Supply	quintal	13.86	157.10	2177.38 A
	TOTAL				58564.01 W
	Add 1 % Water charges on "W-A"	56386.63			563.87
	TOTAL				59127.88 X
	Add GST (multiplying factor 0.1405) on "X-A"	56950.50			8001.54
	TOTAL				67129.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	64952.04			9742.81
	Total				76872.23 Z
	Add Cess @ 1% on "Z-A"	74694.85			746.95
	Cost of 10 metre				77619.18
	Cost per metre				7761.92
	Say				7761.90
18.72.11	700 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	700mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 188.92 Kg				
	Weight of 10m pipes 188.92x10				
	= 1889.20 Kg				
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	metre	10.00	7300.00	73000.00
2353	Carriage of cast iron pipes 700 mm dia Labour for laying	100 metre	0.10	3866.30	386.63
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	18.89	157.10	2967.58 A
	TOTAL				76354.21 W
	Add 1 % Water charges on "W-A"	73386.63			733.87
	TOTAL				77088.08 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add GST (multiplying factor 0.1405) on "X-A"		74120.50		10413.93	
	TOTAL				87502.01	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		84534.43		12680.16	
	Total				100182.17	Z
	Add Cess @ 1% on "Z-A"		97214.59		972.15	
	Cost of 10 metre				101154.32	
	Cost per metre				10115.43	
	Say				10115.45	
18.72.12	800 mm dia Ductile Iron Class K-7 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	800mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 243.51 Kg					
	Weight of 10m pipes 243.51x10					
	= 2435.10 Kg					
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	metre	10.00	9100.00	91000.00	
2355	Carriage of cast iron pipes 800 mm dia Labour for laying	100 metre	0.10	3866.30	386.63	
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	24.35	157.10	3825.34	A
	TOTAL				95211.97	
	Add 1 % Water charges on "W-A"		91386.63		913.87	
	TOTAL				96125.83	X
	Add GST (multiplying factor 0.1405) on "X-A"		92300.50		12968.22	
	TOTAL				109094.05	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		105268.72		15790.31	
	Total				124884.36	Z
	Add Cess @ 1% on "Z-A"		121059.02		1210.59	
	Cost of 10 metre				126094.95	
	Cost per metre				12609.50	
	Say				12609.50	
18.72.13	900 mm dia Ductile Iron Class K-7 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	900 mm dia. cast iron pipes (in 5.5 m lengths) Weight of 1 m pipes = 282.74 Kg					
	Weight of 10m pipes 282.74x10 = 2827.40 Kg					
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	10.00	11800.00	118000.00	
2356	Carriage of cast iron pipes 900 mm dia Labour for laying	100 metre	0.10	5799.46	579.95	
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	28.27	157.10	4441.16	A
	TOTAL				123021.11	W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"		118579.95		1185.80
	TOTAL				124206.91 X
	Add GST (multiplying factor 0.1405) on "X-A"		119765.75		16827.09
	TOTAL				141033.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		136592.83		20488.92
	Total				161522.92 Z
	Add Cess @ 1% on "Z-A"		157081.76		1570.82
	Cost of 10 metre				163093.74
	Cost per metre				16309.37
	Say				16309.35
18.72.14	1000 mm dia Ductile Iron Class K-7 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	1000 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 348.23 Kg				
	Weight of 10m pipes 348.23x10				
	= 3482.30 Kg				
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	10.00	12300.00	123000.00
2357	Carriage of cast iron pipes 1000 mm dia Labour for laying	100 metre	0.10	7732.61	773.26
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	34.82	157.10	5470.15 A
	TOTAL				129243.42 W
	Add 1 % Water charges on "W-A"		123773.26		1237.73
	TOTAL				130481.15 X
	Add GST (multiplying factor 0.1405) on "X-A"		125010.99		17564.04
	TOTAL				148045.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		142575.04		21386.26
	Total				169431.45 Z
	Add Cess @ 1% on "Z-A"		163961.29		1639.61
	Cost of 10 metre				171071.06
	Cost per metre				17107.11
	Say				17107.10

18.72.15 100 mm dia Ductile Iron Class K-9 pipes

Details of cost for 10 metre

MATERIAL

100mm dia. cast iron pipes (in 5.5 m lengths)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of 1 m pipes = 17.76 Kg Weight of 10m pipes 17.76x10 = 177.60 Kg				
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100mm dia	metre	10.00	765.00	7650.00
2319	Carriage of Spun iron S & S pipes	100 metre	0.10	231.98	23.20
	100 mm dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	1.776	157.10	279.01 A
	TOTAL				7952.20 W
	Add 1 % Water charges on "W-A"	7673.20			76.73
	TOTAL				8028.94 X
	Add GST (multiplying factor 0.1405) on "X-A"	7749.93			1088.87
	TOTAL				9117.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8838.79			1325.82
	Total				10443.62 Z
	Add Cess @ 1% on "Z-A"	10164.61			101.65
	Cost of 10 metre				10545.27
	Cost per metre				1054.53
	Say				1054.55
18.72.16	150 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	150 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 26.27 Kg Weight of 10m pipes 26.27x10 = 262.70 Kg				
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150mm dia	metre	10.00	1150.00	11500.00
2321	Carriage of Spun iron S & S pipes	100 metre	0.10	386.63	38.66
	150 mm dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	2.627	157.10	412.70 A
	TOTAL				11951.36 W
	Add 1 % Water charges on "W-A"	11538.66			115.39
	TOTAL				12066.75 X
	Add GST (multiplying factor 0.1405) on "X-A"	11654.05			1637.39
	TOTAL				13704.14 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	13291.44			1993.72
	Total				15697.86 Z
	Add Cess @ 1% on "Z-A"	15285.16			152.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				15850.71
	Cost per metre				1585.07
	Say				1585.05
18.72.17	200 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	200 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 36.15 Kg				
	Weight of 10m pipes 36.15x10 = 361.50 Kg				
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329	metre	10.00	1575.00	15750.00
	200mm dia				
2322	Carriage of Spun iron S & S pipes	100 metre	0.10	628.92	62.89
	200 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	3.615	157.10	567.91 A
	TOTAL				16380.80 W
	Add 1 % Water charges on "W-A"	15812.89			158.13
	TOTAL				16538.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	15971.02			2243.93
	TOTAL				18782.86 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	18214.95			2732.24
	Total				21515.10 Z
	Add Cess @ 1% on "Z-A"	20947.19			209.47
	Cost of 10 metre				21724.57
	Cost per metre				2172.46
	Say				2172.45
18.72.18	250 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	250mm dia. cast iron pipes (in 5.5 m lengths) Weight				
	of 1 m pipes = 48.00 Kg				
	Weight of 10m pipes 48.00x10 = 480.00 Kg				
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 -	metre	10.00	2200.00	22000.00
	250mm dia				
2323	Carriage of Spun iron S & S pipes	100 metre	0.10	893.73	89.37
	250 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	4.80	157.10	754.07 A
	TOTAL				22843.44 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 1 % Water charges on "W-A"		22089.37		220.89	
	TOTAL				23064.34	X
	Add GST (multiplying factor 0.1405) on "X-A"		22310.27		3134.59	
	TOTAL				26198.93	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		25444.86		3816.73	
	Total				30015.66	Z
	Add Cess @ 1% on "Z-A"		29261.59		292.62	
	Cost of 10 metre				30308.27	
	Cost per metre				3030.83	
	Say				3030.85	
18.72.19	300 mm dia Ductile Iron Class K-9 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	300mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 60.490 Kg					
	Weight of 10m pipes 60.490x10 = 604.90 Kg					
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	metre	10.00	2750.00	27500.00	
2324	Carriage of Spun iron S & S pipes	100 metre	0.10	1104.66	110.47	
	300 mm dia					
	Labour for laying					
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	6.049	157.10	950.29	A
	TOTAL				28560.75	W
	Add 1 % Water charges on "W-A"		27610.47		276.10	
	TOTAL				28836.86	X
	Add GST (multiplying factor 0.1405) on "X-A"		27886.57		3918.06	
	TOTAL				32754.92	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		31804.63		4770.70	
	Total				37525.61	Z
	Add Cess @ 1% on "Z-A"		36575.33		365.75	
	Cost of 10 metre				37891.37	
	Cost per metre				3789.14	
	Say				3789.15	
18.72.20	350 mm dia Ductile Iron Class K-9 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	350mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 79.730 Kg					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of 10m pipes 79.730x10 = 797.30 Kg				
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	metre	10.00	3350.00	33500.00
2325	Carriage of Spun iron S & S pipes	100 metre	0.10	1546.52	154.65
	350 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	7.973	157.10	1252.54 A
	TOTAL				34907.20 W
	Add 1 % Water charges on "W-A"	33654.65			336.55
	TOTAL				35243.74 X
	Add GST (multiplying factor 0.1405) on "X-A"	33991.20			4775.76
	TOTAL				40019.50 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	38766.96			5815.04
	Total				45834.55 Z
	Add Cess @ 1% on "Z-A"	44582.01			445.82
	Cost of 10 metre				46280.37
	Cost per metre				4628.04
	Say				4628.05
18.72.21	400 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	400mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 94.800 Kg				
	Weight of 10m pipes 94.800x10 = 948.00 Kg				
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	metre	10.00	4300.00	43000.00
2326	Carriage of Spun iron S & S pipes	100 metre	0.10	2108.89	210.89
	400 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	9.48	157.10	1489.29 A
	TOTAL				44700.18 W
	Add 1 % Water charges on "W-A"	43210.89			432.11
	TOTAL				45132.29 X
	Add GST (multiplying factor 0.1405) on "X-A"	43643.00			6131.84
	TOTAL				51264.13 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	49774.84			7466.23
	Total				58730.36 Z
	Add Cess @ 1% on "Z-A"	57241.07			572.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				59302.77
	Cost per metre				5930.28
	Say				5930.30
18.72.22	450 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	450mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 110.970 Kg				
	Weight of 10m pipes 110.970x10				
	= 1109.70 Kg				
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	metre	10.00	5000.00	50000.00
2327	Carriage of Spun iron S & S pipes	100 metre	0.10	2577.54	257.75
	450 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	11.097	157.10	1743.32 A
	TOTAL				52001.07
	Add 1 % Water charges on "W-A"	50257.75			502.58
	TOTAL				52503.65 X
	Add GST (multiplying factor 0.1405) on "X-A"	50760.33			7131.83
	TOTAL				59635.47 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	57892.16			8683.82
	Total				68319.30 Z
	Add Cess @ 1% on "Z-A"	66575.98			665.76
	Cost of 10 metre				68985.06
	Cost per metre				6898.51
	Say				6898.50
18.72.23	500 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	500mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 129.480 Kg				
	Weight of 10m pipes 129.480x10				
	= 1294.80 Kg				
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	metre	10.00	6270.00	62700.00
2328	Carriage of Spun iron S & S pipes	100 metre	0.10	2577.54	257.75
	500 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	12.948	157.10	2034.11 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				64991.86	W
	Add 1 % Water charges on "W-A"		62957.75		629.58	
	TOTAL				65621.44	X
	Add GST (multiplying factor 0.1405) on "X-A"		63587.33		8934.02	
	TOTAL				74555.46	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		72521.35		10878.20	
	Total				85433.66	Z
	Add Cess @ 1% on "Z-A"		83399.55		834.00	
	Cost of 10 metre				86267.66	
	Cost per metre				8626.77	
	Say				8626.75	
18.72.24	600 mm dia Ductile Iron Class K-9 pipes					
	Details of cost for 10 metre					
	MATERIAL					
	600mm dia. cast iron pipes (in 5.5 m lengths)					
	Weight of 1 m pipes = 168.680 Kg					
	Weight of 10m pipes 168.680x10					
	= 1686.80 Kg					
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	metre	10.00	7560.00	75600.00	
2329	Carriage of Spun iron S & S pipes	100 metre	0.10	3866.30	386.63	
	600mm dia					
	Labour for laying					
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	16.868	157.10	2649.93	A
	TOTAL				78636.56	W
	Add 1 % Water charges on "W-A"		75986.63		759.87	
	TOTAL				79396.43	X
	Add GST (multiplying factor 0.1405) on "X-A"		76746.50		10782.88	
	TOTAL				90179.31	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		87529.38		13129.41	
	Total				103308.72	Z
	Add Cess @ 1% on "Z-A"		100658.79		1006.59	
	Cost of 10 metre				104315.30	
	Cost per metre				10431.53	
	Say				10431.55	
18.72.25	700 mm dia Ductile Iron Class K-9 pipes					
	Details of cost for 10 metre					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	700mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 217.540 Kg				
	Weight of 10m pipes 217.540x10				
	= 2175.40 Kg				
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	metre	10.00	10500.00	105000.00
2330	Carriage of C.I. pipes 500 mm dia Labour for laying	100 metre	0.10	2577.54	257.75
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	21.754	157.10	3417.51 A
	TOTAL				108675.26 W
	Add 1 % Water charges on "W-A"		105257.75		1052.58
	TOTAL				109727.84 X
	Add GST (multiplying factor 0.1405) on "X-A"		106310.33		14936.60
	TOTAL				124664.44 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		121246.93		18187.04
	Total				142851.48 Z
	Add Cess @ 1% on "Z-A"		139433.97		1394.34
	Cost of 10 metre				144245.82
	Cost per metre				14424.58
	Say				14424.60
18.72.26	750 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	750mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 242.600 Kg				
	Weight of 10m pipes 242.600x10				
	= 2426.00 Kg				
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	metre	10.00	11350.00	113500.00
2331	Carriage of R.C.C. pipes 900 mm dia Labour for laying	100 metre	0.10	5799.46	579.95
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	24.26	157.10	3811.20 A
	TOTAL				117891.14 W
	Add 1 % Water charges on "W-A"		114079.95		1140.80
	TOTAL				119031.94 X
	Add GST (multiplying factor 0.1405) on "X-A"		115220.75		16188.51
	TOTAL				135220.46 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		131409.26		19711.39
	Total				154931.85 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		151120.65		1511.21
	Cost of 10 metre				156443.05
	Cost per metre				15644.31
	Say				15644.30
18.72.27	800 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	800 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 267.100 Kg				
	Weight of 10m pipes 267.100x10				
	= 2671.00 Kg				
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	metre	10.00	11450.00	114500.00
2332	Carriage of R.C.C. pipes 1000 mm dia Labour for laying	100 metre	0.10	7732.61	773.26
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	26.71	157.10	4196.09 A
	TOTAL				119469.35 W
	Add 1 % Water charges on "W-A"		115273.26		1152.73
	TOTAL				120622.08 X
	Add GST (multiplying factor 0.1405) on "X-A"		116425.99		16357.85
	TOTAL				136979.93 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		132783.85		19917.58
	Total				156897.51 Z
	Add Cess @ 1% on "Z-A"		152701.42		1527.01
	Cost of 10 metre				158424.53
	Cost per metre				15842.45
	Say				15842.45
18.72.28	900 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	900 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 321.290 Kg				
	Weight of 10m pipes 321.290x10				
	= 3212.90 Kg				
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	metre	10.00	13900.00	139000.00
2333	Carriage of R.C.C. pipes 1100 mm dia Labour for laying	100 metre	0.10	7732.61	773.26
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	32.129	157.10	5047.40 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				144820.66 W
	Add 1 % Water charges on "W-A"		139773.26		1397.73
	TOTAL				146218.40 X
	Add GST (multiplying factor 0.1405) on "X-A"		141170.99		19834.52
	TOTAL				166052.92 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		161005.52		24150.83
	Total				190203.75 Z
	Add Cess @ 1% on "Z-A"		185156.35		1851.56
	Cost of 10 metre				192055.31
	Cost per metre				19205.53
	Say				19205.55
18.72.29	1000 mm dia Ductile Iron Class K-9 pipes				
	Details of cost for 10 metre				
	MATERIAL				
	1000 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1 m pipes = 380.190 Kg				
	Weight of 10m pipes 380.190x10				
	= 3801.90 Kg				
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	metre	10.00	15550.00	155500.00
2334	Carriage of R.C.C. pipes 1200 mm dia Labour for laying	100 metre	0.10	7732.61	773.26
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	38.019	157.10	5972.71 A
	TOTAL				162245.97 W
	Add 1 % Water charges on "W-A"		156273.26		1562.73
	TOTAL				163808.70 X
	Add GST (multiplying factor 0.1405) on "X-A"		157835.99		22175.96
	TOTAL				185984.66 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		180011.95		27001.79
	Total				212986.45 Z
	Add Cess @ 1% on "Z-A"		207013.74		2070.14
	Cost of 10 metre				215056.59
	Cost per metre				21505.66
	Say				21505.65
18.73	Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.73.1	100 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	100 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 21.700 Kg				
	Weight of 5 m pipes 21.700x5 = 108.50 Kg				
7686	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	metre	5.00	1100.00	5500.00
2319	Carriage of Spun iron S & S pipes	100 metre	0.05	231.98	11.60
	100 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	1.09	157.10	171.24 A
	TOTAL				5682.84 W
	Add 1 % Water charges on "W-A"	5511.60			55.12
	TOTAL				5737.95 X
	Add GST (multiplying factor 0.1405) on "X-A"	5566.71			782.12
	TOTAL				6520.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6348.84			952.33
	Total				7472.40 Z
	Add Cess @ 1% on "Z-A"	7301.16			73.01
	Cost of 5 metre				7545.41
	Cost per metre				1509.08
	Say				1509.10
18.73.2	150 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	150 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 32.600 Kg				
	Weight of 5 m pipes 32.600x5 = 163.00 Kg				
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	5.00	1650.00	8250.00
2321	Carriage of Spun iron S & S pipes	100 metre	0.05	386.63	19.33
	150 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	1.63	157.10	256.07 A
	TOTAL				8525.40 W
	Add 1 % Water charges on "W-A"	8269.33			82.69
	TOTAL				8608.09 X
	Add GST (multiplying factor 0.1405) on "X-A"	8352.02			1173.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				9781.55 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	9525.48			1428.82
	Total				11210.38 Z
	Add Cess @ 1% on "Z-A"	10954.31			109.54
	Cost of 5 metre				11319.92
	Cost per metre				2263.98
	Say				2264.00
18.73.3	200 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	200 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 44.200 Kg				
	Weight of 5 m pipes 44.200x5 = 221.00 Kg				
7688	Ductile Iron Pipe Class K-9 flanges and welding	metre	5.00	2075.00	10375.00
2322	200mm dia Carriage of Spun iron S & S pipes	100 metre	0.05	628.92	31.45
	200 mm dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	2.21	157.10	347.19 A
	TOTAL				10753.63 W
	Add 1 % Water charges on "W-A"	10406.45			104.06
	TOTAL				10857.70 X
	Add GST (multiplying factor 0.1405) on "X-A"	10510.51			1476.73
	TOTAL				12334.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	11987.24			1798.09
	Total				14132.51 Z
	Add Cess @ 1% on "Z-A"	13785.32			137.85
	Cost of 5 metre				14270.36
	Cost per metre				2854.07
	Say				2854.05
18.73.4	250 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	250 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 59.400 Kg				
	Weight of 5 m pipes 59.400x5 = 297.00 Kg				
7689	Ductile Iron Pipe Class K-9 flanges and welding	metre	5.00	2950.00	14750.00
	250mm dia				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2323	Carriage of Spun iron S & S pipes	100 metre	0.05	893.73	44.69
	250 mm dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	2.97	157.10	466.58 A
	TOTAL				15261.27 W
	Add 1 % Water charges on "W-A"	14794.69			147.95
	TOTAL				15409.21 X
	Add GST (multiplying factor 0.1405) on "X-A"	14942.63			2099.44
	TOTAL				17508.65 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	17042.07			2556.31
	Total				20064.97 Z
	Add Cess @ 1% on "Z-A"	19598.38			195.98
	Cost of 5 metre				20260.95
	Cost per metre				4052.19
	Say				4052.20
18.73.5	300 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	300 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 76.400 Kg				
	Weight of 5 m pipes 76.400x5 = 382.00 Kg				
7690	Ductile Iron Pipe Class K-9 flanges and welding	metre	5.00	3790.00	18950.00
	300mm dia				
2324	Carriage of Spun iron S & S pipes	100 metre	0.05	1104.66	55.23
	300 mm dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	3.82	157.10	600.11 A
	TOTAL				19605.35 W
	Add 1 % Water charges on "W-A"	19005.23			190.05
	TOTAL				19795.40 X
	Add GST (multiplying factor 0.1405) on "X-A"	19195.29			2696.94
	TOTAL				22492.34 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	21892.22			3283.83
	Total				25776.17 Z
	Add Cess @ 1% on "Z-A"	25176.06			251.76
	Cost of 5 metre				26027.93
	Cost per metre				5205.59
	Say				5205.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.73.6	350 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	350 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 91.400 Kg				
	Weight of 5 m pipes 91.400x5 = 457.00 Kg				
7691	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	metre	5.00	4780	23900.00
2325	Carriage of Spun iron S & S pipes	100 metre	0.05	1546.522	77.33
	350 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	4.57	157.10	717.94 A
	TOTAL				24695.26 W
	Add 1 % Water charges on "W-A"	23977.33			239.77
	TOTAL				24935.04 X
	Add GST (multiplying factor 0.1405) on "X-A"	24217.10			3402.50
	TOTAL				28337.54 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	27619.60			4142.94
	Total				32480.48 Z
	Add Cess @ 1% on "Z-A"	31762.54			317.63
	Cost of 5 metre				32798.11
	Cost per metre				6559.62
	Say				6559.60
18.73.7	400 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	400 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 108.100 Kg				
	Weight of 5 m pipes 108.100x5 = 540.50 Kg				
7692	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	metre	5.00	6150.00	30750.00
2326	Carriage of Spun iron S & S pipes	100 metre	0.05	2108.89	105.44
	400 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	5.40	157.10	848.33 A
	TOTAL				31703.77 W
	Add 1 % Water charges on "W-A"	30855.44			308.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				32012.33 X
	Add GST (multiplying factor 0.1405) on "X-A"	31164.00			4378.54
	TOTAL				36390.87 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	35542.54			5331.38
	Total				41722.25 Z
	Add Cess @ 1% on "Z-A"	40873.92			408.74
	Cost of 5 metre				42130.99
	Cost per metre				8426.20
	Say				8426.20
18.73.8	450 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	450 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 127.800 Kg				
	Weight of 5 m pipes 127.800x5 = 639.00 Kg				
7693	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	metre	5.00	6453.00	32265.00
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	0.05	2577.54	128.88
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	6.39	157.10	1003.86 A
	TOTAL				33397.73 W
	Add 1 % Water charges on "W-A"	32393.88			323.94
	TOTAL				33721.67 X
	Add GST (multiplying factor 0.1405) on "X-A"	32717.82			4596.85
	TOTAL				38318.53 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	37314.67			5597.20
	Total				43915.73 Z
	Add Cess @ 1% on "Z-A"	42911.87			429.12
	Cost of 5 metre				44344.84
	Cost per metre				8868.97
	Say				8868.95

18.73.9 500 mm dia Ductile Iron Double Flanged

Details of cost for 5 metre

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	500 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 147.900 Kg				
	Weight of 5 m pipes 147.900x5 = 739.50 Kg				
7694	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	metre	5.00	9180.00	45900.00
2328	Carriage of Spun iron S & S pipes	100 metre	0.05	2577.54	128.88
	500 mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	7.40	157.10	1162.53 A
	TOTAL				47191.40 W
	Add 1 % Water charges on "W-A"	46028.88			460.29
	TOTAL				47651.69 X
	Add GST (multiplying factor 0.1405) on "X-A"	46489.17			6531.73
	TOTAL				54183.42 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	53020.89			7953.13
	Total				62136.55 Z
	Add Cess @ 1% on "Z-A"	60974.03			609.74
	Cost of 5 metre				62746.29
	Cost per metre				12549.26
	Say				12549.25

18.73.10 600 mm dia Ductile Iron Double Flanged

Details of cost for 5 metre

MATERIAL

600 mm dia. ductile iron pipes double flanged

Weight of 1 m pipes = 198.900 Kg

Weight of 5 m pipes 198.900x5 = 994.50 Kg

7695	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	metre	5.00	12150.00	60750.00
2329	Carriage of Spun iron S & S pipes	100 metre	0.05	3866.30	193.32
	600mm dia				
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water Supply	quintal	9.95	157.10	1563.13 A
	TOTAL				62506.44 W
	Add 1 % Water charges on "W-A"	60943.32			609.43
	TOTAL				63115.87 X
	Add GST (multiplying factor 0.1405) on "X-A"	61552.75			8648.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				71764.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	70200.91			10530.14
	Total				82294.17 Z
	Add Cess @ 1% on "Z-A"	80731.05			807.31
	Cost of 5 metre				83101.48
	Cost per metre				16620.30
	Say				16620.30
18.73.11	700 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL				
	700 mm dia. ductile iron pipes double flanged				
	Weight of 1 m pipes = 254.900 Kg				
	Weight of 5 m pipes 254.900x5 = 1274.50 Kg				
7696	Ductile Iron Pipe Class K-9 flanges and welding	metre	5.00	14370.00	71850.00
2330	700mm dia Carriage of C.I. pipes 500 mm dia Labour for laying	100	0.05	2577.54	128.88
18.23	Rate as per Item Number 18.23 of SH: Water Supply	metre quintal	12.75	157.10	2003.00 A
	TOTAL				73981.88 W
	Add 1 % Water charges on "W-A"	71978.88			719.79
	TOTAL				74701.67 X
	Add GST (multiplying factor 0.1405) on "X-A"	72698.67			10214.16
	TOTAL				84915.83 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	82912.83			12436.92
	Total				97352.75 Z
	Add Cess @ 1% on "Z-A"	95349.75			953.50
	Cost of 5 metre				98306.25
	Cost per metre				19661.25
	Say				19661.25
18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour. 18.74.1 15 mm nominal bore with 30cm length				
18.74.1	15 mm nominal bore with 30cm length				
	Details of cost for one no.				
	MATERIAL				
7862	15 mm nominal bore and 30 cm length	each	1.00	46.50	46.50
	PVC connection pipe with P.T.M.T. Nuts				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Carriage of materials and fixing charges	L.S.	12.22	2.00	24.44
	TOTAL				70.94 W
	Add 1 % Water charges on "W"				0.71
	TOTAL				71.65 X
	Add GST (multiplying factor 0.1405) on "X"				10.07
	TOTAL				81.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				12.26
	Total				93.97 Z
	Add Cess @ 1% on "Z"				0.94
	Cost of one no.				94.91
	Say				94.90
18.74.2	15 mm nominal bore with 45 cm length				
	Details of cost for one no.				
	MATERIAL				
7863	15 mm nominal bore and 45 cm length	each	1.00	57.00	57.00
	PVC connection pipe with P.T.M.T. Nuts				
9988	Carriage of materials and fixing charges	L.S.	13.52	2.00	27.04
	TOTAL				84.04 W
	Add 1 % Water charges on "W"				0.84
	TOTAL				84.88 X
	Add GST (multiplying factor 0.1405) on "X"				11.93
	TOTAL				96.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.52
	Total				111.33 Z
	Add Cess @ 1% on "Z"				1.11
	Cost of one no.				112.44
	Say				112.45
18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.				
18.75.1	15 mm nominal bore, weighing not less than 32 gms				
	Details of cost for one no.				
	MATERIAL				
7864	P.T.M.T. extension nipple 15mm	each	1.00	30.00	30.00
9988	Carriage of materials and fixing charges	L.S.	3.38	2.00	6.76
	TOTAL				36.76 W
	Add 1 % Water charges on "W"				0.37
	TOTAL				37.13 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				5.22
	TOTAL				42.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				6.35
	Total				48.70 Z
	Add Cess @ 1% on "Z"				0.49
	Cost of one no.				49.18
	Say				49.20
18.75.2	20 mm nominal bore, weighing not less than 40 gms				
	Details of cost for one no.				
	MATERIAL				
7865	P.T.M.T. extension nipple 20mm	each	1.00	54.00	54.00
9988	Carriage of materials and fixing charges	L.S.	3.38	2.00	6.76
	TOTAL				60.76 W
	Add 1 % Water charges on "W"				0.61
	TOTAL				61.37 X
	Add GST (multiplying factor 0.1405) on "X"				8.62
	TOTAL				69.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.50
	Total				80.49 Z
	Add Cess @ 1% on "Z"				0.80
	Cost of one no.				81.29
	Say				81.30
18.75.3	25mm nominal bore, weighing not less than 62 gms				
	Details of cost for one no.				
	MATERIAL				
7866	P.T.M.T. extension nipple 25mm	each	1.00	78.00	78.00
9988	Carriage of materials and fixing charges	L.S.	3.38	2.00	6.76
	TOTAL				84.76 W
	Add 1 % Water charges on "W"				0.85
	TOTAL				85.61 X
	Add GST (multiplying factor 0.1405) on "X"				12.03
	TOTAL				97.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.65
	Total				112.28 Z
	Add Cess @ 1% on "Z"				1.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one no.				113.40
	Say				113.40
18.76	Cutting holes up to 30x30 cm in walls including making good the same:				
18.76.1	With common burnt clay F.P.S. (non modular) bricks				
	Details of cost for 10 holes				
	Size 30x30 cm in 34 cm wall				
	Labour for cutting holes				
0023	Mason (brick layer) 1st class	day	0.16	476.00	76.16
0024	Mason (brick layer) 2nd class	day	0.16	374.50	59.92
0017	Beldar	day	1.25	320.83	401.04
	Brick work with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) 10x0.30x0.30x0.344m = 0.309 cum Les 33% for pipe etc. = (-) 0.102 cum = 0.207 cum Say 0.21 cum				
6.4.1	Rate as per item No 6.4.1 of SH :- Brick work.	cum	0.21	6382.90	1340.41 A
	12 mm cement plaster 1:4 (1 cement : 4 coarse sand) 10x2x0.3x0.3m = 1.80 sqm Les 33% for pipe etc. = (-) 0.59 sqm = 1.21 sqm Say 1.20 sqm				
13.4.1	(Rate as per item no 13.4.1 of SH : Finishing)	sqm	1.20	182.15	218.58 A
9999	Add for delay	L.S.	16.12	2	32.24
9999	Sundries	L.S.	8.06	2	16.12
	TOTAL				2144.47
	Add 1 % Water charges on "W-A"	585.48			5.85
	TOTAL				2150.32 X
	Add GST (multiplying factor 0.1405) on "X-A"	591.33			83.08
	TOTAL				2233.41 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	674.41			101.16
	Total				2334.57 Z
	Add Cess @ 1% on "Z-A"	775.58			7.76
	Cost of 10 holes				2342.32
	Cost of 1 hole				234.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Say

234.25

18.77 Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.

Details of cost for 10 holes

Average size 15x15x15 cm

Labour for cutting holes

0023	Mason (brick layer) 1st class	day	0.83	476.00	395.08
0024	Mason (brick layer) 2nd class	day	0.83	374.50	310.84
0017	Beldar	day	1.67	320.83	535.79

Cement concrete 1:2:4 (1 cement :

2 coarse sand ; 4 graded stone aggregate
20 mm nominal size)

10x0.15x0.15x0.15 m = 0.033 cum

Les 33% for pipe etc. = (-) 0.011 cum

= 0.022 cum Say 0.02 cum

4.1.3	Rate as per item no. 4.1.3 of SH : concrete Work	cum	0.02	5954.35	119.09 A

9999	Finishing top and bottom and making the holes leak proof	L.S.	121.16	2	242.32

9999	Add for delay	L.S.	40.30	2	80.60

9999	Sundries	L.S.	21.58	2	43.16

TOTAL 1726.87 W

Add 1 % Water charges on "W-A" 1607.78 16.08

TOTAL 1742.95 X

Add GST (multiplying factor 0.1405) on "X-A" 1623.86 228.15

TOTAL 1971.10 Y

Add 15 % Contractor's profit and overheads on "Y-A" 1852.01 277.80

Total 2248.90 Z

Add Cess @ 1% on "Z-A" 2129.81 21.30

Cost of 10 holes 2270.20

Cost of 1 hole 227.02

Say 227.00

18.78 Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.

Details of cost for 10 metres Labour for making
chases

0023	Mason (brick layer) 1st class	day	0.25	476.000	119.00
0024	Mason (brick layer) 2nd class	day	0.25	374.500	93.63
0017	Beldar	day	1.00	320.830	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 0.075x0.075x10 m = 0.05625 cum Les 33% for pipe etc. = (-) 0.01856 cum = 0.03769 cum Say 0.04 cum				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.04	6577.55	263.10 A
	TOTAL				796.56 W
	Add 1 % Water charges on "W-A"		533.46		5.33
	TOTAL				801.89 X
	Add GST (multiplying factor 0.1405) on "X-A"		538.79		75.70
	TOTAL				877.59 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		614.49		92.17
	Total				969.77 Z
	Add Cess @ 1% on "Z-A"		706.66		7.07
	Cost of 10 metre				976.83
	Cost of 1 metre				97.68
	Say				97.70
18.79	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba.				
	Details of cost for 10 metres Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 0.2x0.2x10 m = 0.40 cum Les for pipe $3.14 \times (0.15)^2 / 4 \times 10 = (-) 0.177$ cum = 0.223 cum Say 0.22 cum				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.22	6577.55	1447.06 A
9999	Disposal of malba	L.S.	13.52	2	27.04
	TOTAL				1474.10 W
	Add 1 % Water charges on "W-A"		27.04		0.27
	TOTAL				1474.37 X
	Add GST (multiplying factor 0.1405) on "X-A"		27.31		3.84
	TOTAL				1478.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		31.15		4.67
	Total				1482.88 Z
	Add Cess @ 1% on "Z-A"		35.82		0.36
	Cost of 10 metre				1483.24
	Cost of 1 metre				148.32
	Say				148.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.80	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.				
18.80.1	80 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14 \times 4 \times (80/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms = 754.28 gms Say 0.008 q				
1301	Bleaching powder	quintal	0.008	1800.00	14.40
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0017	Beldar	day	1.31	320.83	420.29
9999	Sundries including testing of samples	L.S.	9.88	2.00	19.76
	TOTAL				611.53 W
	Add 1 % Water charges on "W"				6.12
	TOTAL				617.64 X
	Add GST (multiplying factor 0.1405) on "X"				86.78
	TOTAL				704.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				105.66
	Total				810.08 Z
	Add Cess @ 1% on "Z"				8.10
	Cost of 100 metre				818.19
	Say				818.20
18.80.2	100 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14 \times 4 \times (100/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms = 1178.57 gms Say 0.012 q				
1301	Bleaching powder	quintal	0.012	1800.00	21.60
	LABOUR				
0019	Fitter (grade 1)	day	0.49	476.00	233.24
0017	Beldar	day	1.64	320.83	526.16
9999	Sundries including testing of samples	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				808.04 W
	Add 1 % Water charges on "W"				8.08
	TOTAL				816.12 X
	Add GST (multiplying factor 0.1405) on "X"				114.67
	TOTAL				930.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				139.62
	Total				1070.40 Z
	Add Cess @ 1% on "Z"				10.70
	Cost of 100 metre				1081.11
	Say				1081.10
18.80.3	125 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14 / 4 \times (125/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms				
	= 1841.52 gms Say 0.018 q				
1301	Bleaching powder	quintal	0.018	1800.00	32.40
	LABOUR				
0019	Fitter (grade 1)	day	0.66	476.00	314.16
0017	Beldar	day	1.97	320.83	632.04
9999	Sundries including testing of samples	L.S.	17.94	2.00	35.88
	TOTAL				1014.48 W
	Add 1 % Water charges on "W"				10.14
	TOTAL				1024.62 X
	Add GST (multiplying factor 0.1405) on "X"				143.96
	TOTAL				1168.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.29
	Total				1343.87 Z
	Add Cess @ 1% on "Z"				13.44
	Cost of 100 metre				1357.30
	Say				1357.30

18.80.4 150 mm diameter C.I. pipe

Details of cost for 100 metres

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Bleaching powder				
	$3 \times 3.14/4 \times (150/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 2651 gms Say 0.027 q				
1301	Bleaching powder	quintal	0.027	1800.00	48.60
	LABOUR				
0019	Fitter (grade 1)	day	0.82	476.00	390.32
0017	Beldar	day	2.30	320.83	737.91
9999	Sundries including testing of samples	L.S.	22.88	2.00	45.76
	TOTAL				1222.59 W
	Add 1 % Water charges on "W"				12.23
	TOTAL				1234.81 X
	Add GST (multiplying factor 0.1405) on "X"				173.49
	TOTAL				1408.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				211.25
	Total				1619.55 Z
	Add Cess @ 1% on "Z"				16.20
	Cost of 100 metre				1635.75
	Say				1635.75
18.80.5	200 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (200/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 4712.39 gms Say 0.047 q				
1301	Bleaching powder	quintal	0.047	1800.00	84.60
	LABOUR				
0019	Fitter (grade 1)	day	1.15	476.00	547.40
0017	Beldar	day	2.95	320.83	946.45
9999	Sundries including testing of samples	L.S.	31.46	2.00	62.92
	TOTAL				1641.37 W
	Add 1 % Water charges on "W"				16.41
	TOTAL				1657.78 X
	Add GST (multiplying factor 0.1405) on "X"				232.92
	TOTAL				1890.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				283.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2174.31 Z
	Add Cess @ 1% on "Z"				21.74
	Cost of 100 metre				2196.05
	Say				2196.05
18.80.6	250 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (250/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 7363.10 gms Say 0.074 q				
1301	Bleaching powder	quintal	0.074	1800.00	133.20
	LABOUR				
0019	Fitter (grade 1)	day	1.48	476.00	704.48
0017	Beldar	day	3.61	320.83	1158.20
9999	Sundries including testing of samples	L.S.	40.30	2.00	80.60
	TOTAL				2076.48 W
	Add 1 % Water charges on "W"				20.76
	TOTAL				2097.24 X
	Add GST (multiplying factor 0.1405) on "X"				294.66
	TOTAL				2391.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				358.79
	Total				2750.69 Z
	Add Cess @ 1% on "Z"				27.51
	Cost of 100 metre				2778.20
	Say				2778.20
18.80.7	300 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (300/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 10602.88 gms Say 0.106 q				
1301	Bleaching powder	quintal	0.106	1800.00	190.80
	LABOUR				
0019	Fitter (grade 1)	day	1.64	476.00	780.64
0017	Beldar	day	3.94	320.83	1264.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including testing of samples	L.S.	44.46	2.00	88.92
	TOTAL				2324.43 W
	Add 1 % Water charges on "W"				23.24
	TOTAL				2347.67 X
	Add GST (multiplying factor 0.1405) on "X"				329.85
	TOTAL				2677.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				401.63
	Total				3079.15 Z
	Add Cess @ 1% on "Z"				30.79
	Cost of 100 metre				3109.94
	Say				3109.95
18.80.8	350 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (350/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 14431.70 gms Say 0.144 q				
1301	Bleaching powder	quintal	0.144	1800.00	259.20
	LABOUR				
0019	Fitter (grade 1)	day	1.80	476.00	856.80
0017	Beldar	day	4.27	320.83	1369.94
9999	Sundries including testing of samples	L.S.	48.36	2.00	96.72
	TOTAL				2582.66 W
	Add 1 % Water charges on "W"				25.83
	TOTAL				2608.49 X
	Add GST (multiplying factor 0.1405) on "X"				366.49
	TOTAL				2974.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				446.25
	Total				3421.23 Z
	Add Cess @ 1% on "Z"				34.21
	Cost of 100 metre				3455.44
	Say				3455.45
18.80.9	400 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (400/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 18849.60 gms Say 0.189 q				
1301	Bleaching powder	quintal	0.189	1800.00	340.20
	LABOUR				
0019	Fitter (grade 1)	day	1.97	476.00	937.72
0017	Beldar	day	4.59	320.83	1472.61
9999	Sundries including testing of samples	L.S.	53.82	2.00	107.64
	TOTAL				2858.17 W
	Add 1 % Water charges on "W"				28.58
	TOTAL				2886.75 X
	Add GST (multiplying factor 0.1405) on "X"				405.59
	TOTAL				3292.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				493.85
	Total				3786.19 Z
	Add Cess @ 1% on "Z"				37.86
	Cost of 100 metre				3824.05
	Say				3824.05
18.80.10	450 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14 / 4 \times (450/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms				
	= 23856.50 gms Say 0.239 q				
1301	Bleaching powder	quintal	0.239	1800.00	430.20
	LABOUR				
0019	Fitter (grade 1)	day	2.13	476.00	1013.88
0017	Beldar	day	4.92	320.83	1578.48
9999	Sundries including testing of samples	L.S.	58.24	2.00	116.48
	TOTAL				3139.04 W
	Add 1 % Water charges on "W"				31.39
	TOTAL				3170.43 X
	Add GST (multiplying factor 0.1405) on "X"				445.45
	TOTAL				3615.88 Y
	Add 15 % Contractor's profit and overheads on "Y"				542.38
	Total				4158.26 Z
	Add Cess @ 1% on "Z"				41.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 100 metre				4199.84
	Say				4199.85
18.80.11	500 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (500/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 29452.40 gms Say 0.295 q				
1301	Bleaching powder	quintal	0.295	1800.00	531.00
	LABOUR				
0019	Fitter (grade 1)	day	2.3	476.00	1094.80
0017	Beldar	day	5.25	320.83	1684.36
9999	Sundries including testing of samples	L.S.	63.7	2.00	127.40
	TOTAL				3437.56 W
	Add 1 % Water charges on "W"				34.38
	TOTAL				3471.93 X
	Add GST (multiplying factor 0.1405) on "X"				487.81
	TOTAL				3959.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				593.96
	Total				4553.70 Z
	Add Cess @ 1% on "Z"				45.54
	Cost of 100 metre				4599.24
	Say				4599.25
18.80.12	600 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
	Bleaching powder				
	$3 \times 3.14/4 \times (600/10)^2 \times (100 \times 100)/1000 \times 0.5$ gms				
	= 42411.5 gms Say 0.424 q				
1301	Bleaching powder	quintal	0.424	1800.00	763.20
	LABOUR				
0019	Fitter (grade 1)	day	2.62	476.00	1247.12
0017	Beldar	day	5.91	320.83	1896.11
9999	Sundries including testing of samples	L.S.	71.37	2.00	142.74
	TOTAL				4049.17 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				40.49
	TOTAL				4089.66 X
	Add GST (multiplying factor 0.1405) on "X"				574.60
	TOTAL				4664.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				699.64
	Total				5363.89 Z
	Add Cess @ 1% on "Z"				53.64
	Cost of 100 metre				5417.53
	Say				5417.55
18.81	Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory :				
18.81.1	80 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.003	1800.00	5.40
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.49	320.83	157.21
9999	Sundries including testing of samples	L.S.	4.42	2.00	8.84
	TOTAL				223.81 W
	Add 1 % Water charges on "W"				2.24
	TOTAL				226.04 X
	Add GST (multiplying factor 0.1405) on "X"				31.76
	TOTAL				257.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.67
	Total				296.47 Z
	Add Cess @ 1% on "Z"				2.96
	Cost of 100 metre				299.44
	Say				299.45
18.81.2	100 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.004	1800.00	7.20
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.16	476.00	76.16
0017	Beldar	day	0.57	320.83	182.87
9999	Sundries including testing of samples	L.S.	4.42	2.00	8.84
	TOTAL				275.07 W
	Add 1 % Water charges on "W"				2.75
	TOTAL				277.82 X
	Add GST (multiplying factor 0.1405) on "X"				39.03
	TOTAL				316.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.53
	Total				364.39 Z
	Add Cess @ 1% on "Z"				3.64
	Cost of 100 metre				368.03
	Say				368.05
18.81.3	125 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.006	1800.00	10.80
	LABOUR				
0019	Fitter (grade 1)	day	0.22	476.00	104.72
0017	Beldar	day	0.66	320.83	211.75
9999	Sundries including testing of samples	L.S.	5.46	2.00	10.92
	TOTAL				338.19 W
	Add 1 % Water charges on "W"				3.38
	TOTAL				341.57 X
	Add GST (multiplying factor 0.1405) on "X"				47.99
	TOTAL				389.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.43
	Total				447.99 Z
	Add Cess @ 1% on "Z"				4.48
	Cost of 100 metre				452.47
	Say				452.45
18.81.4	150 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.009	1800.00	16.20
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.27	476.00	128.52
0017	Beldar	day	0.74	320.83	237.41
9999	Sundries including testing of samples	L.S.	7.15	2.00	14.30
	TOTAL				396.43 W
	Add 1 % Water charges on "W"				3.96
	TOTAL				400.40 X
	Add GST (multiplying factor 0.1405) on "X"				56.26
	TOTAL				456.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				68.50
	Total				525.15 Z
	Add Cess @ 1% on "Z"				5.25
	Cost of 100 metre				530.40
	Say				530.40
18.81.5	200 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.016	1800.00	28.80
	LABOUR				
0019	Fitter (grade 1)	day	0.58	476.00	276.08
0017	Beldar	day	0.90	320.83	288.75
9999	Sundries including testing of samples	L.S.	9.88	2.00	19.76
	TOTAL				613.39 W
	Add 1 % Water charges on "W"				6.13
	TOTAL				619.52 X
	Add GST (multiplying factor 0.1405) on "X"				87.04
	TOTAL				706.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				105.98
	Total				812.55 Z
	Add Cess @ 1% on "Z"				8.13
	Cost of 100 metre				820.67
	Say				820.65
18.81.6	250 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.025	1800.00	45.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.60	476.00	285.60
0017	Beldar	day	1.10	320.83	352.91
9999	Sundries including testing of samples	L.S.	10.79	2.00	21.58
	TOTAL				705.09 W
	Add 1 % Water charges on "W"				7.05
	TOTAL				712.14 X
	Add GST (multiplying factor 0.1405) on "X"				100.06
	TOTAL				812.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				121.83
	Total				934.03 Z
	Add Cess @ 1% on "Z"				9.34
	Cost of 100 metre				943.37
	Say				943.35
18.81.7	300 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.035	1800.00	63.00
	LABOUR				
0019	Fitter (grade 1)	day	0.60	476.00	285.60
0017	Beldar	day	1.30	320.83	417.08
9999	Sundries including testing of samples	L.S.	13.52	2.00	27.04
	TOTAL				792.72 W
	Add 1 % Water charges on "W"				7.93
	TOTAL				800.65 X
	Add GST (multiplying factor 0.1405) on "X"				112.49
	TOTAL				913.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				136.97
	Total				1050.11 Z
	Add Cess @ 1% on "Z"				10.50
	Cost of 100 metre				1060.61
	Say				1060.60
18.81.8	350 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.048	1800.00	86.40
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.70	476.00	333.20
0017	Beldar	day	1.50	320.83	481.25
9999	Sundries including testing of samples	L.S.	16.12	2.00	32.24
	TOTAL				933.09 W
	Add 1 % Water charges on "W"				9.33
	TOTAL				942.42 X
	Add GST (multiplying factor 0.1405) on "X"				132.41
	TOTAL				1074.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.22
	Total				1236.05 Z
	Add Cess @ 1% on "Z"				12.36
	Cost of 100 metre				1248.41
	Say				1248.40
18.81.9	400 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.063	1800.00	113.40
	LABOUR				
0019	Fitter (grade 1)	day	0.80	476.00	380.80
0017	Beldar	day	1.70	320.83	545.41
9999	Sundries including testing of samples	L.S.	17.94	2.00	35.88
	TOTAL				1075.49 W
	Add 1 % Water charges on "W"				10.75
	TOTAL				1086.25 X
	Add GST (multiplying factor 0.1405) on "X"				152.62
	TOTAL				1238.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				185.83
	Total				1424.69 Z
	Add Cess @ 1% on "Z"				14.25
	Cost of 100 metre				1438.94
	Say				1438.95
18.81.10	450 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.08	1800.00	144.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.90	476.00	428.40
0017	Beldar	day	1.90	320.83	609.58
9999	Sundries including testing of samples	L.S.	20.67	2.00	41.34
	TOTAL				1223.32 W
	Add 1 % Water charges on "W"				12.23
	TOTAL				1235.55 X
	Add GST (multiplying factor 0.1405) on "X"				173.59
	TOTAL				1409.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				211.37
	Total				1620.52 Z
	Add Cess @ 1% on "Z"				16.21
	Cost of 100 metre				1636.72
	Say				1636.70
18.81.11	500 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.098	1800.00	176.40
	LABOUR				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0017	Beldar	day	2.10	320.83	673.74
9999	Sundries including testing of samples	L.S.	23.27	2.00	46.54
	TOTAL				1372.68 W
	Add 1 % Water charges on "W"				13.73
	TOTAL				1386.41 X
	Add GST (multiplying factor 0.1405) on "X"				194.79
	TOTAL				1581.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				237.18
	Total				1818.38 Z
	Add Cess @ 1% on "Z"				18.18
	Cost of 100 metre				1836.56
	Say				1836.55
18.81.12	600 mm diameter C.I. pipe				
	Details of cost for 100 metres				
	MATERIAL				
1301	Bleaching powder	quintal	0.141	1800.00	253.80
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	1.20	476.00	571.20
0017	Beldar	day	2.50	320.83	802.08
9999	Sundries including testing of samples	L.S.	26.00	2.00	52.00
	TOTAL				1679.08 W
	Add 1 % Water charges on "W"				16.79
	TOTAL				1695.87 X
	Add GST (multiplying factor 0.1405) on "X"				238.27
	TOTAL				1934.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				290.12
	Total				2224.26 Z
	Add Cess @ 1% on "Z"				22.24
	Cost of 100 metre				2246.50
	Say				2246.50
18.82	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking of pipes at site lead up to 50 metre:				
18.82.1	80 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth $1 \times 40.26 \times 55 \times 0.75 \text{ m} = 16.61 \text{ cum}$ Deduct for pipe $1 \times 40.26 \times 3.14 / 4 \times (0.098)^2 = (-) 0.30 \text{ cum}$ Total = 16.31 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	16.31	171.40	2795.60 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	16.31	124.50	2030.64 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	0.373	500.00	186.50
771	Kerosene oil	litre	0.379	50.00	18.95
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	0.50	374.50	187.25
0017	Beldar	day	4.00	320.83	1283.32
9988	Sundries and carriage	L.S.	53.82	2.00	107.64
	TOTAL				6609.90 W
	Add 1 % Water charges on "W-A"	1783.66			17.84
	TOTAL				6627.74 X
	Add GST (multiplying factor 0.1405) on "X-A"	1801.50			253.11
	TOTAL				6880.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2054.61			308.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				7189.04 Z
	Add Cess @ 1% on "Z-A"		2362.80		23.63
	Cost of 40.26 metre				7212.67
	Cost of one metre				179.15
	Say				179.15
18.82.2	100 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x55x0.75 m=16.61 cum Deduct for pipe 1x40.26x3.14/4x(0.118) ² =(-) 0.44 cum Total= 16.17 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	16.17	171.40	2771.61 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	16.17	124.50	2013.21 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	0.466	500.00	233.00
771	Kerosene oil	litre	0.379	50.00	18.95
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	0.63	374.50	235.94
0017	Beldar	day	4.50	320.83	1443.74
9988	Sundries and carriage	L.S.	53.82	2.00	107.64
	TOTAL				6824.08
	Add 1 % Water charges on "W-A"		2039.26		20.39
	TOTAL				6844.47 X
	Add GST (multiplying factor 0.1405) on "X-A"		2059.65		289.38
	TOTAL				7133.85 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		2349.03		352.36
	Total				7486.20 Z
	Add Cess @ 1% on "Z-A"		2701.39		27.01
	Cost of 40.26 metre				7513.22
	Cost of one metre				186.62
	Say				186.60
18.82.3	125 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x55x0.75 m=16.61 cum Deduct for pipe 1x40.26x3.14/4x(0.144) ² =(-) 0.65 cum Total= 15.96 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	15.96	171.40	2735.61 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	15.96	124.50	1987.06 A
	Breaking lead caulked joints, blocks and stacking				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
761	Fuel wood	quintal	0.559	500.00	279.50
771	Kerosene oil	litre	0.568	50.00	28.40
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	0.75	374.50	280.88
0017	Beldar	day	5.00	320.83	1604.15
9988	Sundries and carriage	L.S.	53.82	2.00	107.64
	TOTAL				7023.24 W
	Add 1 % Water charges on "W-A"	2300.57			23.01
	TOTAL				7046.25 X
	Add GST (multiplying factor 0.1405) on "X-A"	2323.57			326.46
	TOTAL				7372.71 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2650.03			397.50
	Total				7770.21 Z
	Add Cess @ 1% on "Z-A"	3047.54			30.48
	Cost of 40.26 metre				7800.69
	Cost of one metre				193.76
	Say				193.75
18.82.4	150 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x55x0.75 m=16.61 cum Deduct for pipe 1x40.26x3.14/4x(0.17) ² =(-) 0.91 cum Total= 15.70 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	15.70	171.40	2691.05 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	15.70	124.50	1954.69 A
	Breaking lead caulked joints, blocks and stacking				
	MATERIAL				
761	Fuel wood	quintal	0.653	500.00	326.50
771	Kerosene oil	litre	0.568	50.00	28.40
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	0.88	374.50	329.56
0017	Beldar	day	5.50	320.83	1764.57
9988	Sundries and carriage	L.S.	67.21	2.00	134.42
	TOTAL				7229.18 W
	Add 1 % Water charges on "W-A"	2583.45			25.83
	TOTAL				7255.02 X
	Add GST (multiplying factor 0.1405) on "X-A"	2609.28			366.60
	TOTAL				7621.62 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2975.88			446.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Total				8068.00	Z
	Add Cess @ 1% on "Z-A"		3422.27		34.22	
	Cost of 40.26 metre				8102.23	
	Cost of one metre				201.25	
	Say				201.25	
18.82.5	200 mm diameter C.I. pipe					
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x60x0.75 m=18.12 cum Deduct for pipe 1x40.26x3.14/4x(0.222) ² =(-) 1.56 cum Total= 16.56 cum					
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	16.56	171.40	2838.46	A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	16.56	124.50	2061.76	A
	Breaking lead caulked joints, blocks and stacking MATERIAL					
761	Fuel wood	quintal	0.84	500.00	420.00	
771	Kerosene oil	litre	0.7576	50.00	37.88	
	LABOUR					
0020	Assistant Fitter or 2nd class Fitter	day	1.10	374.50	411.95	
0017	Beldar	day	6.50	320.83	2085.40	
9988	Sundries and carriage	L.S.	67.21	2.00	134.42	
	TOTAL				7989.86	W
	Add 1 % Water charges on "W-A"		3089.65		30.90	
	TOTAL				8020.76	X
	Add GST (multiplying factor 0.1405) on "X-A"		3120.54		438.44	
	TOTAL				8459.20	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		3558.98		533.85	
	Total				8993.04	Z
	Add Cess @ 1% on "Z-A"		4092.82		40.93	
	Cost of 40.26 metre				9033.97	
	Cost of one metre				224.39	
	Say				224.40	
18.82.6	250 mm diameter C.I. pipe					
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x65x0.75 m=19.63 cum Deduct for pipe 1x40.26x3.14/4x(0.274) ² =(-) 2.37 cum Total= 17.26 cum					
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	17.26	171.40	2958.44	A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	17.26	124.50	2148.92	A
	Breaking lead caulked joints, blocks and stacking MATERIAL					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
761	Fuel wood	quintal	1.026	500.00	513.00
771	Kerosene oil	litre	1.1365	50.00	56.83
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	1.30	374.50	486.85
0017	Beldar	day	7.50	320.83	2406.23
9988	Sundries and carriage	L.S.	80.73	2.00	161.46
	TOTAL				8731.71 W
	Add 1 % Water charges on "W-A"	3624.36			36.24
	TOTAL				8767.96 X
	Add GST (multiplying factor 0.1405) on "X-A"	3660.60			514.31
	TOTAL				9282.27 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4174.92			626.24
	Total				9908.51 Z
	Add Cess @ 1% on "Z-A"	4801.16			48.01
	Cost of 40.26 metre				9956.52
	Cost of one metre				247.31
	Say				247.30
18.82.7	300 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.70x0.75 m=21.14 cum Deduct for pipe 1x40.26x3.14/4x(0.326) ² =(-) 3.36 cum Total= 17.79 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	17.79	171.40	3049.28 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	17.79	124.50	2214.90 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	1.12	500.00	560.00
771	Kerosene oil	litre	1.515	50.00	75.75
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	1.50	374.50	561.75
0017	Beldar	day	8.50	320.83	2727.06
9988	Sundries and carriage	L.S.	94.12	2.00	188.24
	TOTAL				9376.98 W
	Add 1 % Water charges on "W-A"	4112.80			41.13
	TOTAL				9418.11 X
	Add GST (multiplying factor 0.1405) on "X-A"	4153.92			583.63
	TOTAL				10001.73 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"		4737.55		710.63
	Total				10712.37 Z
	Add Cess @ 1% on "Z-A"		5448.18		54.48
	Cost of 40.26 metre				10766.85
	Cost of one metre				267.43
	Say				267.45
18.82.8	350 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.75x0.75 m=22.65 cum Deduct for pipe 1x40.26x3.14/4x(0.378) ² =(-) 4.51 cum Total= 18.14 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	18.14	171.40	3109.27 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	18.14	124.50	2258.48 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	1.213	500.00	606.50
771	Kerosene oil	litre	1.515	50.00	75.75
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	1.75	374.50	655.38
0017	Beldar	day	9.50	320.83	3047.89
9988	Sundries and carriage	L.S.	107.64	2.00	215.28
	TOTAL				9968.54 W
	Add 1 % Water charges on "W-A"		4600.79		46.01
	TOTAL				10014.55 X
	Add GST (multiplying factor 0.1405) on "X-A"		4646.80		652.88
	TOTAL				10667.43 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		5299.67		794.95
	Total				11462.38 Z
	Add Cess @ 1% on "Z-A"		6094.62		60.95
	Cost of 40.26 metre				11523.32
	Cost of one metre				286.22
	Say				286.20
18.82.9	400 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1x40.26x.80x0.75 m=24.16 cum Deduct for pipe 1x40.26x3.14/4x(0.429) ² =(-) 5.93 cum Total= 18.23 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	18.23	171.40	3124.70 A
2.25	(Rate as per item No.2.25 of SH Earth work) Breaking lead caulked joints, blocks and stacking MATERIAL	cum	18.23	124.50	2269.68 A
761	Fuel wood	quintal	1.306	500.00	653.00
771	Kerosene oil	litre	1.894	50.00	94.70
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	2.00	374.50	749.00
0017	Beldar	day	10.5	320.83	3368.72
9988	Sundries and carriage	L.S.	121.03	2.00	242.06
	TOTAL				10501.86 W
	Add 1 % Water charges on "W-A"	5107.48			51.07
	TOTAL				10552.93 X
	Add GST (multiplying factor 0.1405) on "X-A"	5158.55			724.78
	TOTAL				11277.71 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5883.33			882.50
	Total				12160.21 Z
	Add Cess @ 1% on "Z-A"	6765.82			67.66
	Cost of 40.26 metre				12227.87
	Cost of one metre				303.72
	Say				303.70
18.82.10	450 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.85x0.75 m=25.67 cum Deduct for pipe 1x40.26x3.14/4x(0.48) ² =(-) 7.29 cum Total= 18.38 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	18.38	171.40	3150.41 A
2.25	(Rate as per item No.2.25 of SH Earth work) Breaking lead caulked joints, blocks and stacking MATERIAL	cum	18.38	124.50	2288.36 A
761	Fuel wood	quintal	1.40	500.00	700.00
771	Kerosene oil	litre	2.273	50.00	113.65
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	2.25	374.50	842.63
0017	Beldar	day	11.50	320.83	3689.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9988	Sundries and carriage	L.S.	134.55	2.00	269.10
	TOTAL				11053.69 W
	Add 1 % Water charges on "W-A"	5614.92			56.15
	TOTAL				11109.84 X
	Add GST (multiplying factor 0.1405) on "X-A"	5671.07			796.79
	TOTAL				11906.62 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6467.85			970.18
	Total				12876.80 Z
	Add Cess @ 1% on "Z-A"	7438.03			74.38
	Cost of 40.26 metre				12951.18
	Cost of one metre				321.69
	Say				321.70
18.82.11	500 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.90x0.75 m=27.18 cum Deduct for pipe 1x40.26x3.14/4x(0.532) ² =(-) 8.94 cum Total= 18.24 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	18.24	171.40	3126.41 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	18.24	124.50	2270.93 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	1.492	500.00	746.00
771	Kerosene oil	litre	2.652	50.00	132.60
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	2.50	374.50	936.25
0017	Beldar	day	12.50	320.83	4010.38
9988	Sundries and carriage	L.S.	147.94	2.00	295.88
	TOTAL				11518.45 W
	Add 1 % Water charges on "W-A"	6121.11			61.21
	TOTAL				11579.66 X
	Add GST (multiplying factor 0.1405) on "X-A"	6182.32			868.62
	TOTAL				12448.27 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	7050.93			1057.64
	Total				13505.91 Z
	Add Cess @ 1% on "Z-A"	8108.57			81.09
	Cost of 40.26 metre				13587.00
	Cost of one metre				337.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				337.50
18.82.12	600 mm diameter C.I. pipe				
	Details of cost for 40.26 m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x1.00x0.75 m=30.20 cum Deduct for pipe 1x40.26x3.14/4x(0.635) ² =(-) 12.76 cum Total= 17.44 cum				
2.8.1	(Rate as per item no. 2.8.1 of SH: Earth work)	cum	17.44	171.40	2989.29 A
2.25	(Rate as per item No.2.25 of SH Earth work)	cum	17.44	124.50	2171.33 A
	Breaking lead caulked joints, blocks and stacking MATERIAL				
761	Fuel wood	quintal	1.68	500.00	840.00
771	Kerosene oil	litre	3.41	50.00	170.50
	LABOUR				
0020	Assistant Fitter or 2nd class Fitter	day	3.00	374.50	1123.50
0017	Beldar	day	14.50	320.83	4652.04
9988	Sundries and carriage	L.S.	174.85	2.00	349.70
	TOTAL				12296.35 W
	Add 1 % Water charges on "W-A"	7135.74			71.36
	TOTAL				12367.71 X
	Add GST (multiplying factor 0.1405) on "X-A"	7207.09			1012.60
	TOTAL				13380.31 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8219.69			1232.95
	Total				14613.26 Z
	Add Cess @ 1% on "Z-A"	9452.64			94.53
	Cost of 40.26 metre				14707.79
	Cost of one metre				365.32
	Say				365.30
18.83	Labour for cutting C.I. pipe with steel saw.				
18.83.1	80 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.06	476.00	28.56
0017	Beldar	day	0.06	320.83	19.25
9999	Sundries	L.S.	1.82	2.00	3.64
	TOTAL				51.45 W
	Add 1 % Water charges on "W"				0.51
	TOTAL				51.96 X
	Add GST (multiplying factor 0.1405) on "X"				7.30
	TOTAL				59.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				8.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				68.16 Z
	Add Cess @ 1% on "Z"				0.68
	Cost of each cut				68.84
	Say				68.85
18.83.2	100 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.08	476.00	38.08
0017	Beldar	day	0.08	320.83	25.67
9999	Sundries	L.S.	2.73	2.00	5.46
	TOTAL				69.21 W
	Add 1 % Water charges on "W"				0.69
	TOTAL				69.90 X
	Add GST (multiplying factor 0.1405) on "X"				9.82
	TOTAL				79.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.96
	Total				91.68 Z
	Add Cess @ 1% on "Z"				0.92
	Cost of each cut				92.59
	Say				92.60
18.83.3	125 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.11	476.00	52.36
0017	Beldar	day	0.11	320.83	35.29
9999	Sundries	L.S.	4.42	2.00	8.84
	TOTAL				96.49 W
	Add 1 % Water charges on "W"				0.96
	TOTAL				97.46 X
	Add GST (multiplying factor 0.1405) on "X"				13.69
	TOTAL				111.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.67
	Total				127.82 Z
	Add Cess @ 1% on "Z"				1.28
	Cost of each cut				129.10
	Say				129.10
18.83.4	150 mm diameter C.I. pipe				
	Detail of cost for one cut.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0019	Fitter (grade 1)	day	0.15	476.00	71.40
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	5.33	2.00	10.66
	TOTAL				130.18 W
	Add 1 % Water charges on "W"				1.30
	TOTAL				131.49 X
	Add GST (multiplying factor 0.1405) on "X"				18.47
	TOTAL				149.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.49
	Total				172.45 Z
	Add Cess @ 1% on "Z"				1.72
	Cost of each cut				174.18
	Say				174.20
18.83.5	200 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.20	476.00	95.20
0017	Beldar	day	0.20	320.83	64.17
9999	Sundries	L.S.	7.15	2.00	14.30
	TOTAL				173.67 W
	Add 1 % Water charges on "W"				1.74
	TOTAL				175.40 X
	Add GST (multiplying factor 0.1405) on "X"				24.64
	TOTAL				200.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.01
	Total				230.05 Z
	Add Cess @ 1% on "Z"				2.30
	Cost of each cut				232.35
	Say				232.35
18.83.6	250 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.25	476.00	119.00
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				215.33 W
	Add 1 % Water charges on "W"				2.15
	TOTAL				217.48 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				30.56
	TOTAL				248.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.21
	Total				285.24 Z
	Add Cess @ 1% on "Z"				2.85
	Cost of each cut				288.09
	Say				288.10
18.83.7	300 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.30	476.00	142.80
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	9.88	2.00	19.76
	TOTAL				258.81 W
	Add 1 % Water charges on "W"				2.59
	TOTAL				261.40 X
	Add GST (multiplying factor 0.1405) on "X"				36.73
	TOTAL				298.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				44.72
	Total				342.84 Z
	Add Cess @ 1% on "Z"				3.43
	Cost of each cut				346.27
	Say				346.25
18.83.8	350 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.35	476.00	166.60
0017	Beldar	day	0.35	320.83	112.29
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				300.47 W
	Add 1 % Water charges on "W"				3.00
	TOTAL				303.48 X
	Add GST (multiplying factor 0.1405) on "X"				42.64
	TOTAL				346.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.92
	Total				398.03 Z
	Add Cess @ 1% on "Z"				3.98
	Cost of each cut				402.01
	Say				402.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.83.9	400 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.40	476.00	190.40
0017	Beldar	day	0.40	320.83	128.33
9999	Sundries	L.S.	12.48	2.00	24.96
	TOTAL				343.69 W
	Add 1 % Water charges on "W"				3.44
	TOTAL				347.13 X
	Add GST (multiplying factor 0.1405) on "X"				48.77
	TOTAL				395.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				59.39
	Total				455.29 Z
	Add Cess @ 1% on "Z"				4.55
	Cost of each cut				459.84
	Say				459.85
18.83.10	450 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.45	476.00	214.20
0017	Beldar	day	0.45	320.83	144.37
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				385.61 W
	Add 1 % Water charges on "W"				3.86
	TOTAL				389.47 X
	Add GST (multiplying factor 0.1405) on "X"				54.72
	TOTAL				444.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.63
	Total				510.82 Z
	Add Cess @ 1% on "Z"				5.11
	Cost of each cut				515.93
	Say				515.95
18.83.11	500 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	15.21	2.00	30.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				428.84 W
	Add 1 % Water charges on "W"				4.29
	TOTAL				433.12 X
	Add GST (multiplying factor 0.1405) on "X"				60.85
	TOTAL				493.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				74.10
	Total				568.07 Z
	Add Cess @ 1% on "Z"				5.68
	Cost of each cut				573.75
	Say				573.75
18.83.12	600 mm diameter C.I. pipe				
	Detail of cost for one cut.				
	LABOUR				
0019	Fitter (grade 1)	day	0.60	476.00	285.60
0017	Beldar	day	0.60	320.83	192.50
9999	Sundries	L.S.	16.12	2.00	32.24
	TOTAL				510.34 W
	Add 1 % Water charges on "W"				5.10
	TOTAL				515.44 X
	Add GST (multiplying factor 0.1405) on "X"				72.42
	TOTAL				587.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				88.18
	Total				676.04 Z
	Add Cess @ 1% on "Z"				6.76
	Cost of each cut				682.80
	Say				682.80
18.84	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.				
18.84.1	15 mm nominal bore				
	Details of cost for one no.				
	MATERIAL				
3327	15 mm Battery Based Sensor Pillar Cock	each	1.00	5800.00	5800.00
9988	Carriage of materials and fixing charges	L.S.	8.06	2.00	16.12
	TOTAL				5816.12 W
	Add 1 % Water charges on "W"				58.16
	TOTAL				5874.28 X
	Add GST (multiplying factor 0.1405) on "X"				825.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6699.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				1004.94
	Total				7704.56 Z
	Add Cess @ 1% on "Z"				77.05
	Cost of one no.				7781.61
	Say				7781.60
18.85	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00 m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer-in-charge. (The pipe length inserted in the fitting shall not be measured for payment)				
	Internal work - Exposed on wall				
18.85.1	15.88 mm outer dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	10.00	130.00	1300.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00301	94.34	0.28
	Add 3% for pipe inserted into fitting and wastage etc. on $X \times 3 \times X / 100$				39.00
9999	Cement, sand and grit	L.S.	2.73	2.00	5.46
	Add 2% for special T&P and sundries etc. on X				26.00
	$2 \times X / 100$				
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				1986.74 W
	Add 1 % Water charges on "W"				19.87
	TOTAL				2006.61 X
	Add GST (multiplying factor 0.1405) on "X"				281.93
	TOTAL				2288.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				343.28
	Total				2631.82 Z
	Add Cess @ 1% on "Z"				26.32
	Cost of 10 metre				2658.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				265.81
	Say				265.80
18.85.2	22.22 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	10.00	243.00	2430.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00529	94.34	0.50
	Add 3% for pipe inserted into fitting and wastage etc. on $X \times 3 \times X / 100$				72.90
9999	Cement, sand and grit	L.S.	2.73	2.00	5.46
	Add 2% for special T&P and sundries etc. on X				48.60
	$2 \times X / 100$				
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				3173.46 W
	Add 1 % Water charges on "W"				31.73
	TOTAL				3205.19 X
	Add GST (multiplying factor 0.1405) on "X"				450.33
	TOTAL				3655.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				548.33
	Total				4203.85 Z
	Add Cess @ 1% on "Z"				42.04
	Cost of 10 metre				4245.89
	Cost of 1 metre				424.59
	Say				424.60
18.85.3	28.58 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	10.00	297.00	2970.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00687	94.34	0.65
	Add 3% for pipe inserted into fitting and wastage etc. on $X \times 3 \times X / 100$				89.10
9999	Cement, sand and grit	L.S.	4.16	2.00	8.32
	Add 2% for special T&P and sundries etc. on X				59.40
	$2 \times X / 100$				
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				3743.47 W
	Add 1 % Water charges on "W"				37.43
	TOTAL				3780.90 X
	Add GST (multiplying factor 0.1405) on "X"				531.22
	TOTAL				4312.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				646.82
	Total				4958.93 Z
	Add Cess @ 1% on "Z"				49.59
	Cost of 10 metre				5008.52
	Cost of 1 metre				500.85
	Say				500.85
18.85.4	34.00 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	10.00	423.00	4230.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0098	94.34	0.92
	Add 3% for pipe inserted into fitting and wastage etc. on $X \times 3 \times X / 100$				126.90
9999	Cement, sand and grit	L.S.	4.16	2.00	8.32
	Add 2% for special T&P and sundries etc. on $X \times 2 \times X / 100$				84.60
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				5066.74 W
	Add 1 % Water charges on "W"				50.67
	TOTAL				5117.41 X
	Add GST (multiplying factor 0.1405) on "X"				719.00
	TOTAL				5836.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				875.46
	Total				6711.87 Z
	Add Cess @ 1% on "Z"				67.12
	Cost of 10 metre				6778.99
	Cost of 1 metre				677.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				677.90
18.85.5	42.70 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	10.00	441.00	4410.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0124	94.34	1.17
	Add 3% for pipe inserted into fitting and wastage etc. on $X \frac{3}{4} \times X / 100$				132.30
9999	Cement, sand and grit	L.S.	5.33	2.00	10.66
	Add 2% for special T&P and sundries etc. on $X \frac{2}{4} \times X / 100$				88.20
	LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				5258.33 W
	Add 1 % Water charges on "W"				52.58
	TOTAL				5310.91 X
	Add GST (multiplying factor 0.1405) on "X"				746.18
	TOTAL				6057.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				908.56
	Total				6965.66 Z
	Add Cess @ 1% on "Z"				69.66
	Cost of 10 metre				7035.31
	Cost of 1 metre				703.53
	Say				703.55

18.85.6 48.60 mm outer dia Pipe

Details of cost for 10 metre

MATERIAL

8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	10.00	610.00	6100.00 (X)
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0142	94.34	1.34
	Add 3% for pipe inserted into fitting and wastage etc. on $X \frac{3}{4} \times X / 100$				183.00
9999	Cement, sand and grit	L.S.	5.33	2.00	10.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 2% for special T&P and sundries etc. on X $2 * X / 100$ LABOUR				122.00
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				7033.00 W
	Add 1 % Water charges on "W"				70.33
	TOTAL				7103.33 X
	Add GST (multiplying factor 0.1405) on "X"				998.02
	TOTAL				8101.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				1215.20
	Total				9316.55 Z
	Add Cess @ 1% on "Z"				93.17
	Cost of 10 metre				9409.71
	Cost of 1 metre				940.97
	Say				940.95
18.86	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing and also including cutting of chases and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment) Internal work - Concealed Pipe				
18.86.1	15.88 mm outer dia .Pipes.				
	Details of cost for 10 metre				
	MATERIAL				
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	10.00	130.00	1300.00 (X)
	Add 3% for pipe inserted into fitting and wastage etc. on $X * 3 * X / 100$				39.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00301	94.34	0.28
	Making chases upto 7.5x7.5 cm.in walls and making good the same				
18.78	Rate as per Item No.18.78 of SH:WATER SUPPLY	metre	10.00	97.70	977.03 (A)
	Add 2% for special T&P and sundries etc.				26.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	on X 2 * X / 100 LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				2958.31 W
	Add 1 % Water charges on "W-A"	1981.28			19.81
	TOTAL				2978.13 X
	Add GST (multiplying factor 0.1405) on "X-A"	2001.09			281.15
	TOTAL				3259.28 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2282.25			342.34
	Total				3601.62 Z
	Add Cess @ 1% on "Z-A"	2624.59			26.25
	Cost of 10 metre				3627.86
	Cost of 1 metre				362.79
	Say				362.80
18.86.2	22.22 mm Outer dia pipes				
	Details of cost for 10 metre				
	MATERIAL				
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	10.00	243.00	2430.00 (X)
	Add 3% for pipe inserted into fitting and wastage etc. on X 3 * X / 100				72.90
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00529	94.34	0.50
	Making chases upto 7.5x7.5 cm.in walls and making good the same				
18.78	Rate as per Item No.18.78 of SH: WATER SUPPLY	metre	10.00	97.70	977.00 (A)
	Add 2% for special T&P and sundries etc.				48.60
	on X 2 * X / 100 LABOUR				
0019	Fitter (grade 1)	day	0.33	476.00	157.08
0020	Assistant Fitter or 2nd class Fitter	day	0.66	374.50	247.17
0017	Beldar	day	0.66	320.83	211.75
	TOTAL				4145.00 W
	Add 1 % Water charges on "W-A"	3168.00			31.68
	TOTAL				4176.68 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"		3199.68		449.55
	TOTAL				4626.23 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		3649.23		547.38
	Total				5173.62 Z
	Add Cess @ 1% on "Z-A"		4196.62		41.97
	Cost of 10 metre				5215.58
	Cost of 1 metre				521.56
	Say				521.55
18.87	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Coupling/Socket				
18.87.1	For 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	1.00	59.00	59.00
	TOTAL				59.00 W
	Add 1 % Water charges on "W"				0.59
	TOTAL				59.59 X
	Add GST (multiplying factor 0.1405) on "X"				8.37
	TOTAL				67.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.19
	Total				78.16 Z
	Add Cess @ 1% on "Z"				0.78
	Cost of 1 no.				78.94
	Say				78.95
18.87.2	For 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	1.00	63.00	63.00
	TOTAL				63.00 W
	Add 1 % Water charges on "W"				0.63
	TOTAL				63.63 X
	Add GST (multiplying factor 0.1405) on "X"				8.94
	TOTAL				72.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				83.46 Z
	Add Cess @ 1% on "Z"				0.83
	Cost of 1 no.				84.29
	Say				84.30
18.87.3	For 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	1.00	89.00	89.00
	TOTAL				89.00 W
	Add 1 % Water charges on "W"				0.89
	TOTAL				89.89 X
	Add GST (multiplying factor 0.1405) on "X"				12.63
	TOTAL				102.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.38
	Total				117.90 Z
	Add Cess @ 1% on "Z"				1.18
	Cost of 1 no.				119.08
	Say				119.10
18.87.4	For 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	1.00	131.00	131.00
	TOTAL				131.00 W
	Add 1 % Water charges on "W"				1.31
	TOTAL				132.31 X
	Add GST (multiplying factor 0.1405) on "X"				18.59
	TOTAL				150.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.63
	Total				173.53 Z
	Add Cess @ 1% on "Z"				1.74
	Cost of 1 no.				175.27
	Say				175.25
18.87.5	For 42.70 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	1.00	158.00	158.00
	TOTAL				158.00 W
	Add 1 % Water charges on "W"				1.58
	TOTAL				159.58 X
	Add GST (multiplying factor 0.1405) on "X"				22.42
	TOTAL				182.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.30
	Total				209.30 Z
	Add Cess @ 1% on "Z"				2.09
	Cost of 1 no.				211.39
	Say				211.40
18.87.6	For 48.60 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	1.00	180.00	180.00
	TOTAL				180.00 W
	Add 1 % Water charges on "W"				1.80
	TOTAL				181.80 X
	Add GST (multiplying factor 0.1405) on "X"				25.54
	TOTAL				207.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.10
	Total				238.44 Z
	Add Cess @ 1% on "Z"				2.38
	Cost of 1 no.				240.83
	Say				240.85
18.88	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducer				
18.88.1	For 22.22 mm x 15.88 mm outer dia pipe				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL				
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	1.00	103.00	103.00
	TOTAL				103.00 w
	Add 1 % Water charges on "W"				1.03
	TOTAL				104.03 X
	Add GST (multiplying factor 0.1405) on "X"				14.62
	TOTAL				118.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				17.80
	Total				136.44 Z
	Add Cess @ 1% on "Z"				1.36
	Cost of 1 no.				137.81
	Say				137.80
18.88.2	For 28.58 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	1.00	141.00	141.00
	TOTAL				141.00 W
	Add 1 % Water charges on "W"				1.41
	TOTAL				142.41 X
	Add GST (multiplying factor 0.1405) on "X"				20.01
	TOTAL				162.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.36
	Total				186.78 Z
	Add Cess @ 1% on "Z"				1.87
	Cost of 1 no.				188.65
	Say				188.65
18.88.3	For 28.58 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	1.00	145.00	145.00
	TOTAL				145.00 W
	Add 1 % Water charges on "W"				1.45
	TOTAL				146.45 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				20.58
	TOTAL				167.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.05
	Total				192.08 Z
	Add Cess @ 1% on "Z"				1.92
	Cost of 1 no.				194.00
	Say				194.00
18.88.4	For 34.00 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	1.00	184.00	184.00
	TOTAL				184.00 W
	Add 1 % Water charges on "W"				1.84
	TOTAL				185.84 X
	Add GST (multiplying factor 0.1405) on "X"				26.11
	TOTAL				211.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				31.79
	Total				243.74 Z
	Add Cess @ 1% on "Z"				2.44
	Cost of 1 no.				246.18
	Say				246.20
18.88.5	For 34.00 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	1.00	187.00	187.00
	TOTAL				187.00 W
	Add 1 % Water charges on "W"				1.87
	TOTAL				188.87 X
	Add GST (multiplying factor 0.1405) on "X"				26.54
	TOTAL				215.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.31
	Total				247.72 Z
	Add Cess @ 1% on "Z"				2.48
	Cost of 1 no.				250.19

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				250.20
18.88.6	For 34.00 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	1.00	190.00	190.00
	TOTAL				190.00 W
	Add 1 % Water charges on "W"				1.90
	TOTAL				191.90 X
	Add GST (multiplying factor 0.1405) on "X"				26.96
	TOTAL				218.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.83
	Total				251.69 Z
	Add Cess @ 1% on "Z"				2.52
	Cost of 1 no.				254.21
	Say				254.20
18.88.7	For 42.70 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	1.00	359.00	359.00
	TOTAL				359.00 W
	Add 1 % Water charges on "W"				3.59
	TOTAL				362.59 X
	Add GST (multiplying factor 0.1405) on "X"				50.94
	TOTAL				413.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.03
	Total				475.56 Z
	Add Cess @ 1% on "Z"				4.76
	Cost of 1 no.				480.32
	Say				480.30
18.88.8	For 42.70 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	1.00	362.00	362.00
	TOTAL				362.00 W
	Add 1 % Water charges on "W"				3.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				365.62 X
	Add GST (multiplying factor 0.1405) on "X"				51.37
	TOTAL				416.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.55
	Total				479.54 Z
	Add Cess @ 1% on "Z"				4.80
	Cost of 1 no.				484.33
	Say				484.35
18.88.9	For 42.70 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	1.00	362.00	362.00
	TOTAL				362.00 W
	Add 1 % Water charges on "W"				3.62
	TOTAL				365.62 X
	Add GST (multiplying factor 0.1405) on "X"				51.37
	TOTAL				416.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.55
	Total				479.54 Z
	Add Cess @ 1% on "Z"				4.80
	Cost of 1 no.				484.33
	Say				484.35
18.88.10	For 42.70 mm x 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	1.00	387.00	387.00
	TOTAL				387.00 W
	Add 1 % Water charges on "W"				3.87
	TOTAL				390.87 X
	Add GST (multiplying factor 0.1405) on "X"				54.92
	TOTAL				445.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				66.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				512.66 Z
	Add Cess @ 1% on "Z"				5.13
	Cost of 1 no.				517.78
	Say				517.80
18.88.11	For 48.60 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	1.00	410.00	410.00
	TOTAL				410.00 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.10 X
	Add GST (multiplying factor 0.1405) on "X"				58.18
	TOTAL				472.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.84
	Total				543.12 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of 1 no.				548.55
	Say				548.55
18.88.12	For 48.60 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	1.00	410.00	410.00
	TOTAL				410.00 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.10 X
	Add GST (multiplying factor 0.1405) on "X"				58.18
	TOTAL				472.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.84
	Total				543.12 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				5.43
	Cost of 1 no.				548.55
	Say				548.55
18.88.13	For 48.60 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	1.00	410.00	410.00
	TOTAL				410.00 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.10 X
	Add GST (multiplying factor 0.1405) on "X"				58.18
	TOTAL				472.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.84
	Total				543.12 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of 1 no.				548.55
	Say				548.55
18.88.14	For 48.60 mm x 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	1.00	410.00	410.00
	TOTAL				410.00 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.10 X
	Add GST (multiplying factor 0.1405) on "X"				58.18
	TOTAL				472.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.84
	Total				543.12 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of 1 no.				548.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				548.55

18.88.15 For 48.60 mm x 42.70 mm outer dia pipe

Details of cost for 1 no.

MATERIAL

8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	1.00	410.00	410.00
	TOTAL				410.00 W
	Add 1 % Water charges on "W"				4.10
	TOTAL				414.10 X
	Add GST (multiplying factor 0.1405) on "X"				58.18
	TOTAL				472.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.84
	Total				543.12 Z
	Add Cess @ 1% on "Z"				5.43
	Cost of 1 no.				548.55
	Say				548.55

18.89 Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Slip Coupling/ Socket

18.89.1 For 15.88 mm outer dia pipe

Details of cost for 1 no.

MATERIAL

8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	1.00	47.00	47.00
	TOTAL				47.00 W
	Add 1 % Water charges on "W"				0.47
	TOTAL				47.47 X
	Add GST (multiplying factor 0.1405) on "X"				6.67
	TOTAL				54.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				8.12
	Total				62.26 Z
	Add Cess @ 1% on "Z"				0.62
	Cost of 1 no.				62.88
	Say				62.90

18.89.2 For 22.22 mm outer dia pipe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL				
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	1.00	63.00	63.00
	TOTAL				63.00 W
	Add 1 % Water charges on "W"				0.63
	TOTAL				63.63 X
	Add GST (multiplying factor 0.1405) on "X"				8.94
	TOTAL				72.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.89
	Total				83.46 Z
	Add Cess @ 1% on "Z"				0.83
	Cost of 1 no.				84.29
	Say				84.30
18.89.3	For 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	1.00	89.00	89.00
	TOTAL				89.00 W
	Add 1 % Water charges on "W"				0.89
	TOTAL				89.89 X
	Add GST (multiplying factor 0.1405) on "X"				12.63
	TOTAL				102.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				15.38
	Total				117.90 Z
	Add Cess @ 1% on "Z"				1.18
	Cost of 1 no.				119.08
	Say				119.10
18.89.4	For 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	1.00	131.00	131.00
	TOTAL				131.00 W
	Add 1 % Water charges on "W"				1.31
	TOTAL				132.31 X
	Add GST (multiplying factor 0.1405) on "X"				18.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				150.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				22.63
	Total				173.53 Z
	Add Cess @ 1% on "Z"				1.74
	Cost of 1 no.				175.27
	Say				175.25
18.89.5	For 42.70 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	1.00	158.00	158.00
	TOTAL				158.00 W
	Add 1 % Water charges on "W"				1.58
	TOTAL				159.58 X
	Add GST (multiplying factor 0.1405) on "X"				22.42
	TOTAL				182.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.30
	Total				209.30 Z
	Add Cess @ 1% on "Z"				2.09
	Cost of 1 no.				211.39
	Say				211.40
18.89.6	For 48.60 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	1.00	170.00	170.00
	TOTAL				170.00 W
	Add 1 % Water charges on "W"				1.70
	TOTAL				171.70 X
	Add GST (multiplying factor 0.1405) on "X"				24.12
	TOTAL				195.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.37
	Total				225.20 Z
	Add Cess @ 1% on "Z"				2.25
	Cost of 1 no.				227.45
	Say				227.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.90	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Elbow 90°				
18.90.1	For 15.88mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8812	Elbow 90° for 15.88 mm outer dia SS pipe	each	1.00	58.00	58.00
	TOTAL				58.00 W
	Add 1 % Water charges on "W"				0.58
	TOTAL				58.58 X
	Add GST (multiplying factor 0.1405) on "X"				8.23
	TOTAL				66.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.02
	Total				76.83 Z
	Add Cess @ 1% on "Z"				0.77
	Cost of 1 no.				77.60
	Say				77.60
18.90.2	For 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8813	Elbow 90° for 22.22 mm outer dia SS pipe	each	1.00	63.00	63.00
	TOTAL				63.00 W
	Add 1 % Water charges on "W"				0.63
	TOTAL				63.63 X
	Add GST (multiplying factor 0.1405) on "X"				8.94
	TOTAL				72.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.89
	Total				83.46 Z
	Add Cess @ 1% on "Z"				0.83
	Cost of 1 no.				84.29
	Say				84.30
18.90.3	For 28.58 mm outer dia pipe				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL				
8814	Elbow 90° for 28.58 mm outer dia SS pipe	each	1.00	96.00	96.00
	TOTAL				96.00 W
	Add 1 % Water charges on "W"				0.96
	TOTAL				96.96 X
	Add GST (multiplying factor 0.1405) on "X"				13.62
	TOTAL				110.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				16.59
	Total				127.17 Z
	Add Cess @ 1% on "Z"				1.27
	Cost of 1 no.				128.44
	Say				128.45
18.90.4	For 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8815	Elbow 90° for 34.00 mm outer dia SS pipe	each	1.00	109.00	109.00
	TOTAL				109.00 W
	Add 1 % Water charges on "W"				1.09
	TOTAL				110.09 X
	Add GST (multiplying factor 0.1405) on "X"				15.47
	TOTAL				125.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				18.83
	Total				144.39 Z
	Add Cess @ 1% on "Z"				1.44
	Cost of 1 no.				145.84
	Say				145.85
18.90.5	For 42.70 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8816	Elbow 90° for 42.70 mm outer dia SS pipe	each	1.00	116.00	116.00
	TOTAL				116.00 W
	Add 1 % Water charges on "W"				1.16
	TOTAL				117.16 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				16.46
	TOTAL				133.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				20.04
	Total				153.66 Z
	Add Cess @ 1% on "Z"				1.54
	Cost of 1 no.				155.20
	Say				155.20
18.90.6	For 48.60 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8817	Elbow 90° for 48.60 mm outer dia SS pipe	each	1.00	150.00	150.00
	TOTAL				150.00 W
	Add 1 % Water charges on "W"				1.50
	TOTAL				151.50 X
	Add GST (multiplying factor 0.1405) on "X"				21.29
	TOTAL				172.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.92
	Total				198.70 Z
	Add Cess @ 1% on "Z"				1.99
	Cost of 1 no.				200.69
	Say				200.70
18.91	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducing Elbow 90°				
18.91.1	For 22.22 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8818	Reducing Elbow 90° for 22.22 mm X 15.88 mm outer dia SS pipe	each	1.00	148.00	148.00
	TOTAL				148.00 W
	Add 1 % Water charges on "W"				1.48
	TOTAL				149.48 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				21.00
	TOTAL				170.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.57
	Total				196.05 Z
	Add Cess @ 1% on "Z"				1.96
	Cost of 1 no.				198.01
	Say				198.00
18.91.2	For 28.58 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8819	Reducing Elbow 90° for 28.58 mm X 15.88 mm outer dia SS pipe	each	1.00	191.00	191.00
	TOTAL				191.00 W
	Add 1 % Water charges on "W"				1.91
	TOTAL				192.91 X
	Add GST (multiplying factor 0.1405) on "X"				27.10
	TOTAL				220.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.00
	Total				253.02 Z
	Add Cess @ 1% on "Z"				2.53
	Cost of 1 no.				255.55
	Say				255.55
18.91.3	For 28.58 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8820	Reducing Elbow 90° for 28.58 mm X 22.22 mm outer dia SS pipe	each	1.00	221.00	221.00
	TOTAL				221.00 W
	Add 1 % Water charges on "W"				2.21
	TOTAL				223.21 X
	Add GST (multiplying factor 0.1405) on "X"				31.36
	TOTAL				254.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.19
	Total				292.76 Z
	Add Cess @ 1% on "Z"				2.93
	Cost of 1 no.				295.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				295.70
18.91.4	For 34.00 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8821	Reducing Elbow 90° for 34.00 mm X 22.22 mm outer dia SS pipe	each	1.00	287.00	287.00
	TOTAL				<u>287.00</u> W
	Add 1 % Water charges on "W"				2.87
	TOTAL				<u>289.87</u> X
	Add GST (multiplying factor 0.1405) on "X"				40.73
	TOTAL				<u>330.60</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				49.59
	Total				<u>380.19</u> Z
	Add Cess @ 1% on "Z"				3.80
	Cost of 1 no.				<u>383.99</u>
	Say				384.00
18.91.5	For 34.00 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8822	Reducing Elbow 90° for 34.00 mm X 28.58 mm outer dia SS pipe	each	1.00	345.00	345.00
	TOTAL				<u>345.00</u> W
	Add 1 % Water charges on "W"				3.45
	TOTAL				<u>348.45</u> X
	Add GST (multiplying factor 0.1405) on "X"				48.96
	TOTAL				<u>397.41</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				59.61
	Total				<u>457.02</u> Z
	Add Cess @ 1% on "Z"				4.57
	Cost of 1 no.				<u>461.59</u>
	Say				461.60
18.91.6	For 42.70 mm x 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8823	Reducing Elbow 90° for 42.70 mm X 34.00 mm outer dia SS pipe	each	1.00	179.00	179.00
	TOTAL				<u>179.00</u> W
	Add 1 % Water charges on "W"				1.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				180.79 X
	Add GST (multiplying factor 0.1405) on "X"				25.40
	TOTAL				206.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.93
	Total				237.12 Z
	Add Cess @ 1% on "Z"				2.37
	Cost of 1 no.				239.49
	Say				239.50
18.92	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Equal Tee				
18.92.1	For 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	1.00	159.00	159.00
	TOTAL				159.00 W
	Add 1 % Water charges on "W"				1.59
	TOTAL				160.59 X
	Add GST (multiplying factor 0.1405) on "X"				22.56
	TOTAL				183.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.47
	Total				210.63 Z
	Add Cess @ 1% on "Z"				2.11
	Cost of 1 no.				212.73
	Say				212.75
18.92.2	For 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	1.00	231.00	231.00
	TOTAL				231.00 W
	Add 1 % Water charges on "W"				2.31
	TOTAL				233.31 X
	Add GST (multiplying factor 0.1405) on "X"				32.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				266.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.91
	Total				306.00 Z
	Add Cess @ 1% on "Z"				3.06
	Cost of 1 no.				309.06
	Say				309.05
18.92.3	For 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.92.4	For 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.92.5	For 42.70 mm outer dia pipe				
	Details of cost for 1 no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.92.6	For 48.60 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.93	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducing Tee				
18.93.1	For 22.22 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS	each	1.00	179.00	179.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				179.00 W
	Add 1 % Water charges on "W"				1.79
	TOTAL				180.79 X
	Add GST (multiplying factor 0.1405) on "X"				25.40
	TOTAL				206.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.93
	Total				237.12 Z
	Add Cess @ 1% on "Z"				2.37
	Cost of 1 no.				239.49
	Say				239.50
18.93.2	For 28.58 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.93.3	For 28.58 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.93.4	For 34.00 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.93.5	For 34.00 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.93.6	For 34.00 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	1.00	437.000	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.93.7	For 42.70 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.93.8	For 42.70 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.93.9	For 42.70 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.93.10	For 42.70 mm x 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.93.11	For 48.60 mm x 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.93.12	For 48.60 mm x 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.93.13	For 48.60 mm x 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe TOTAL	each	1.00	887.00	887.00
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.93.14	For 48.60 mm x 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe TOTAL	each	1.00	887.00	887.00
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.93.15	For 48.60 mm x 42.70 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe TOTAL	each	1.00	887.00	887.00
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.94	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Thread Tee				
18.94.1	For 15.88 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8845	Stainless steel Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	179.00	179.00
	TOTAL				179.00 W
	Add 1 % Water charges on "W"				1.79
	TOTAL				180.79 X
	Add GST (multiplying factor 0.1405) on "X"				25.40
	TOTAL				206.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.93
	Total				237.12 Z
	Add Cess @ 1% on "Z"				2.37
	Cost of 1 no.				239.49
	Say				239.50
18.94.2	For 22.22 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8846	Stainless steel Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	200.00	200.00
	TOTAL				200.00 W
	Add 1 % Water charges on "W"				2.00
	TOTAL				202.00 X
	Add GST (multiplying factor 0.1405) on "X"				28.38
	TOTAL				230.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.56
	Total				264.94 Z
	Add Cess @ 1% on "Z"				2.65
	Cost of 1 no.				267.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				267.60
18.94.3	For 22.22 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8847	Stainless steel Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	205.00	205.00
	TOTAL				<u>205.00</u> W
	Add 1 % Water charges on "W"				2.05
	TOTAL				<u>207.05</u> X
	Add GST (multiplying factor 0.1405) on "X"				29.09
	TOTAL				<u>236.14</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				35.42
	Total				<u>271.56</u> Z
	Add Cess @ 1% on "Z"				2.72
	Cost of 1 no.				<u>274.28</u>
	Say				274.30
18.94.4	For 28.58 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8848	Stainless steel Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				<u>273.00</u> W
	Add 1 % Water charges on "W"				2.73
	TOTAL				<u>275.73</u> X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				<u>314.47</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				<u>361.64</u> Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				<u>365.26</u>
	Say				365.25
18.94.5	For 28.58 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8849	Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				<u>273.00</u> W
	Add 1 % Water charges on "W"				2.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.94.6	For 28.58 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8850	Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.94.7	For 34.00 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8851	Stainless steel Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.94.8	For 34.00 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8852	Stainless steel Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.94.9	For 34.00 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8853	Stainless steel Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.94.10	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8854	Stainless steel Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70

18.94.11 For 42.70 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8855	Stainless steel Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80

18.94.12 For 42.70 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8856	Stainless steel Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.94.13	For 42.70 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8857	Stainless steel Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.94.14	For 42.70 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8858	Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

18.94.15 For 42.70 mm outer dia x 40 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8859	Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				<u>683.00</u> W
	Add 1 % Water charges on "W"				6.83
	TOTAL				<u>689.83</u> X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				<u>786.75</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				<u>904.76</u> Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				<u>913.81</u>
	Say				913.80

18.94.16 For 48.60 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8860	Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				<u>887.00</u> W
	Add 1 % Water charges on "W"				8.87
	TOTAL				<u>895.87</u> X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				<u>1021.74</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				<u>1175.00</u> Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				<u>1186.75</u>
	Say				1186.75

18.94.17 For 48.60 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8861	Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				<u>887.00</u> W
	Add 1 % Water charges on "W"				8.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.94.18	For 48.60 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8862	Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.94.19	For 48.60 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8863	Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.94.20	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8864	Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.94.21	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8865	Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.95	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Female Thread Tee

18.95.1 For 15.88 mm outer dia x15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8866	Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	179.00	179.00
	TOTAL				179.00 W
	Add 1 % Water charges on "W"				1.79
	TOTAL				180.79 X
	Add GST (multiplying factor 0.1405) on "X"				25.40
	TOTAL				206.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				30.93
	Total				237.12 Z
	Add Cess @ 1% on "Z"				2.37
	Cost of 1 no.				239.49
	Say				239.50

18.95.2 For 22.22 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8867	Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	200.00	200.00
	TOTAL				200.00 W
	Add 1 % Water charges on "W"				2.00
	TOTAL				202.00 X
	Add GST (multiplying factor 0.1405) on "X"				28.38
	TOTAL				230.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.56
	Total				264.94 Z
	Add Cess @ 1% on "Z"				2.65
	Cost of 1 no.				267.59
	Say				267.60

18.95.3 For 22.22 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8868	Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	200.00	200.00
	TOTAL				200.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				2.00
	TOTAL				202.00 X
	Add GST (multiplying factor 0.1405) on "X"				28.38
	TOTAL				230.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				34.56
	Total				264.94 Z
	Add Cess @ 1% on "Z"				2.65
	Cost of 1 no.				267.59
	Say				267.60
18.95.4	For 28.58 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8869	Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25
18.95.5	For 28.58 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8870	Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				273.00 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.73 X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				314.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				361.64 Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				365.26
	Say				365.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.95.6	For 28.58 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8871	Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	273.00	273.00
	TOTAL				<u>273.00</u> W
	Add 1 % Water charges on "W"				2.73
	TOTAL				<u>275.73</u> X
	Add GST (multiplying factor 0.1405) on "X"				38.74
	TOTAL				<u>314.47</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				47.17
	Total				<u>361.64</u> Z
	Add Cess @ 1% on "Z"				3.62
	Cost of 1 no.				<u>365.26</u>
	Say				365.25
18.95.7	For 34.00 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8872	Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				<u>437.00</u> W
	Add 1 % Water charges on "W"				4.37
	TOTAL				<u>441.37</u> X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				<u>503.38</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				<u>578.89</u> Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				<u>584.68</u>
	Say				584.70
18.95.8	For 34.00 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8873	Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				<u>437.00</u> W
	Add 1 % Water charges on "W"				4.37
	TOTAL				<u>441.37</u> X
	Add GST (multiplying factor 0.1405) on "X"				62.01

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.95.9	For 34.00 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8874	Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70
18.95.10	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8875	Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	437.00	437.00
	TOTAL				437.00 W
	Add 1 % Water charges on "W"				4.37
	TOTAL				441.37 X
	Add GST (multiplying factor 0.1405) on "X"				62.01
	TOTAL				503.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				75.51
	Total				578.89 Z
	Add Cess @ 1% on "Z"				5.79
	Cost of 1 no.				584.68
	Say				584.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

18.95.11 For 42.70 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8876	Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				<u>683.00</u> W
	Add 1 % Water charges on "W"				6.83
	TOTAL				<u>689.83</u> X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				<u>786.75</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				<u>904.76</u> Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				<u>913.81</u>
	Say				913.80

18.95.12 For 42.70 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8877	Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				<u>683.00</u> W
	Add 1 % Water charges on "W"				6.83
	TOTAL				<u>689.83</u> X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				<u>786.75</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				<u>904.76</u> Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				<u>913.81</u>
	Say				913.80

18.95.13 For 42.70 mm outer dia x 25 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8878	Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				<u>683.00</u> W
	Add 1 % Water charges on "W"				6.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.95.14	For 42.70 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8879	Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.95.15	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8880	Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Add Cess @ 1% on "Z" 9.05

Cost of 1 no. 913.81

Say 913.80

18.95.16 For 48.60 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8881	Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1.00	887.00	887.00
TOTAL					887.00 W

Add 1 % Water charges on "W" 8.87

TOTAL 895.87 X

Add GST (multiplying factor 0.1405) on "X" 125.87

TOTAL 1021.74 Y

Add 15 % Contractor's profit and overheads on "Y" 153.26

Total 1175.00 Z

Add Cess @ 1% on "Z" 11.75

Cost of 1 no. 1186.75

Say 1186.75

18.95.17 For 48.60 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8882	Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1.00	887.00	887.00
TOTAL					887.00 W

Add 1 % Water charges on "W" 8.87

TOTAL 895.87 X

Add GST (multiplying factor 0.1405) on "X" 125.87

TOTAL 1021.74 Y

Add 15 % Contractor's profit and overheads on "Y" 153.26

Total 1175.00 Z

Add Cess @ 1% on "Z" 11.75

Cost of 1 no. 1186.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1186.75
18.95.18	For 48.60 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8883	Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.95.19	For 48.60 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8884	Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.95.20	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8885	Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.95.21	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8886	Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	887.00	887.00
	TOTAL				887.00 W
	Add 1 % Water charges on "W"				8.87
	TOTAL				895.87 X
	Add GST (multiplying factor 0.1405) on "X"				125.87
	TOTAL				1021.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				153.26
	Total				1175.00 Z
	Add Cess @ 1% on "Z"				11.75
	Cost of 1 no.				1186.75
	Say				1186.75
18.96	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O- ring sealing gasket of EPDM material of required dia as per direction of Engineer- in-charge.				
	Female Thread Connector/ Adapter				
18.96.1	For 15.88 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8887	Stainless steel Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	190.00	190.00
	TOTAL				190.00 W
	Add 1 % Water charges on "W"				1.90
	TOTAL				191.90 X
	Add GST (multiplying factor 0.1405) on "X"				26.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				218.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				32.83
	Total				251.69 Z
	Add Cess @ 1% on "Z"				2.52
	Cost of 1 no.				254.21
	Say				254.20
18.96.2	For 22.22 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8888	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	230.00	230.00
	TOTAL				230.00 W
	Add 1 % Water charges on "W"				2.30
	TOTAL				232.30 X
	Add GST (multiplying factor 0.1405) on "X"				32.64
	TOTAL				264.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.74
	Total				304.68 Z
	Add Cess @ 1% on "Z"				3.05
	Cost of 1 no.				307.73
	Say				307.75
18.96.3	For 22.22 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8889	Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	237.00	237.00
	TOTAL				237.00 W
	Add 1 % Water charges on "W"				2.37
	TOTAL				239.37 X
	Add GST (multiplying factor 0.1405) on "X"				33.63
	TOTAL				273.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.95
	Total				313.95 Z
	Add Cess @ 1% on "Z"				3.14
	Cost of 1 no.				317.09
	Say				317.10
18.96.4	For 28.58 mm outer dia x 15 mm nominal dia threaded				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL				
8890	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal dia threaded	each	1.00	277.00	277.00
	TOTAL				277.00 W
	Add 1 % Water charges on "W"				2.77
	TOTAL				279.77 X
	Add GST (multiplying factor 0.1405) on "X"				39.31
	TOTAL				319.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.86
	Total				366.94 Z
	Add Cess @ 1% on "Z"				3.67
	Cost of 1 no.				370.61
	Say				370.60

18.96.5 For 28.58 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8891	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal dia threaded	each	1.00	286.00	286.00
	TOTAL				286.00 W
	Add 1 % Water charges on "W"				2.86
	TOTAL				288.86 X
	Add GST (multiplying factor 0.1405) on "X"				40.58
	TOTAL				329.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.42
	Total				378.86 Z
	Add Cess @ 1% on "Z"				3.79
	Cost of 1 no.				382.65
	Say				382.65

18.96.6 For 28.58 mm outer dia x 25 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8892	Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	337.00	337.00
	TOTAL				337.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				3.37
	TOTAL				340.37 X
	Add GST (multiplying factor 0.1405) on "X"				47.82
	TOTAL				388.19 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.23
	Total				446.42 Z
	Add Cess @ 1% on "Z"				4.46
	Cost of 1 no.				450.88
	Say				450.90
18.96.7	For 34.00 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8893	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	409.00	409.00
	TOTAL				409.00 W
	Add 1 % Water charges on "W"				4.09
	TOTAL				413.09 X
	Add GST (multiplying factor 0.1405) on "X"				58.04
	TOTAL				471.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				70.67
	Total				541.80 Z
	Add Cess @ 1% on "Z"				5.42
	Cost of 1 no.				547.22
	Say				547.20
18.96.8	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8894	Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	538.00	538.00
	TOTAL				538.00 W
	Add 1 % Water charges on "W"				5.38
	TOTAL				543.38 X
	Add GST (multiplying factor 0.1405) on "X"				76.34
	TOTAL				619.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				92.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				712.68 Z
	Add Cess @ 1% on "Z"				7.13
	Cost of 1 no.				719.81
	Say				719.80
18.96.9	For 42.70 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8895	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	576.00	576.00
	TOTAL				576.00 W
	Add 1 % Water charges on "W"				5.76
	TOTAL				581.76 X
	Add GST (multiplying factor 0.1405) on "X"				81.74
	TOTAL				663.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				99.52
	Total				763.02 Z
	Add Cess @ 1% on "Z"				7.63
	Cost of 1 no.				770.65
	Say				770.65
18.96.10	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8896	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	681.00	681.00
	TOTAL				681.00 W
	Add 1 % Water charges on "W"				6.81
	TOTAL				687.81 X
	Add GST (multiplying factor 0.1405) on "X"				96.64
	TOTAL				784.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				117.67
	Total				902.11 Z
	Add Cess @ 1% on "Z"				9.02
	Cost of 1 no.				911.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				911.15
18.96.11	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8897	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	838.00	838.00
	TOTAL				838.00 W
	Add 1 % Water charges on "W"				8.38
	TOTAL				846.38 X
	Add GST (multiplying factor 0.1405) on "X"				118.92
	TOTAL				965.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				144.79
	Total				1110.09 Z
	Add Cess @ 1% on "Z"				11.10
	Cost of 1 no.				1121.19
	Say				1121.20
18.96.12	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8898	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	965.00	965.00
	TOTAL				965.00 W
	Add 1 % Water charges on "W"				9.65
	TOTAL				974.65 X
	Add GST (multiplying factor 0.1405) on "X"				136.94
	TOTAL				1111.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.74
	Total				1278.33 Z
	Add Cess @ 1% on "Z"				12.78
	Cost of 1 no.				1291.11
	Say				1291.10
18.97	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Male Thread Connector/ Adapter

18.97.1 For 15.88 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8899	Stainless steel Male threaded Connector/ Adapter for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	193.00	193.00
	TOTAL				193.00 W
	Add 1 % Water charges on "W"				1.93
	TOTAL				194.93 X
	Add GST (multiplying factor 0.1405) on "X"				27.39
	TOTAL				222.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.35
	Total				255.67 Z
	Add Cess @ 1% on "Z"				2.56
	Cost of 1 no.				258.22
	Say				258.20

18.97.2 For 22.22 mm outer dia x 15 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8900	Stainless steel Male threaded Connector/ Adapter for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	227.00	227.00
	TOTAL				227.00 W
	Add 1 % Water charges on "W"				2.27
	TOTAL				229.27 X
	Add GST (multiplying factor 0.1405) on "X"				32.21
	TOTAL				261.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.22
	Total				300.70 Z
	Add Cess @ 1% on "Z"				3.01
	Cost of 1 no.				303.71
	Say				303.70

18.97.3 For 22.22 mm outer dia x 20 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8901	Stainless steel Male threaded Connector/ Adapter for 22.22 mm outer dia X 20mm nominal dia threaded	each	1.00	248.00	248.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				248.00 W
	Add 1 % Water charges on "W"				2.48
	TOTAL				250.48 X
	Add GST (multiplying factor 0.1405) on "X"				35.19
	TOTAL				285.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.85
	Total				328.52 Z
	Add Cess @ 1% on "Z"				3.29
	Cost of 1 no.				331.81
	Say				331.80
18.97.4	For 28.58 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8902	Stainless steel Male threaded Connector/ Adapter for 28.58 mm outer dia X 20 mm nominal dia threaded	each	1.00	313.00	313.00
	TOTAL				313.00 W
	Add 1 % Water charges on "W"				3.13
	TOTAL				316.13 X
	Add GST (multiplying factor 0.1405) on "X"				44.42
	TOTAL				360.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.08
	Total				414.63 Z
	Add Cess @ 1% on "Z"				4.15
	Cost of 1 no.				418.77
	Say				418.75
18.97.5	For 28.58 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8903	Stainless steel Male threaded Connector/ Adapter for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	320.00	320.00
	TOTAL				320.00 W
	Add 1 % Water charges on "W"				3.20
	TOTAL				323.20 X
	Add GST (multiplying factor 0.1405) on "X"				45.41
	TOTAL				368.61 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				55.29
	Total				423.90 Z
	Add Cess @ 1% on "Z"				4.24
	Cost of 1 no.				428.14
	Say				428.15
18.97.6	For 34.00 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8904	Stainless steel Male threaded Connector/ Adapter for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	461.00	461.00
	TOTAL				461.00 W
	Add 1 % Water charges on "W"				4.61
	TOTAL				465.61 X
	Add GST (multiplying factor 0.1405) on "X"				65.42
	TOTAL				531.03 Y
	Add 15 % Contractor's profit and overheads on "Y"				79.65
	Total				610.68 Z
	Add Cess @ 1% on "Z"				6.11
	Cost of 1 no.				616.79
	Say				616.80
18.97.7	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8905	Stainless steel Male threaded Connector/ Adapter for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	565.00	565.00
	TOTAL				565.00 W
	Add 1 % Water charges on "W"				5.65
	TOTAL				570.65 X
	Add GST (multiplying factor 0.1405) on "X"				80.18
	TOTAL				650.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				97.62
	Total				748.45 Z
	Add Cess @ 1% on "Z"				7.48
	Cost of 1 no.				755.93
	Say				755.95
18.97.8	For 42.70 mm outer dia x 32 mm nominal dia threaded				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 no.				
	MATERIAL				
8906	Stainless steel Male threaded Connector/ Adapter for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	649.00	649.00
	TOTAL				649.00 W
	Add 1 % Water charges on "W"				6.49
	TOTAL				655.49 X
	Add GST (multiplying factor 0.1405) on "X"				92.10
	TOTAL				747.59 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.14
	Total				859.72 Z
	Add Cess @ 1% on "Z"				8.60
	Cost of 1 no.				868.32
	Say				868.30
18.97.9	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8907	Stainless steel Male threaded Connector/ Adapter for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	726.00	726.00
	TOTAL				726.00 W
	Add 1 % Water charges on "W"				7.26
	TOTAL				733.26 X
	Add GST (multiplying factor 0.1405) on "X"				103.02
	TOTAL				836.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				125.44
	Total				961.73 Z
	Add Cess @ 1% on "Z"				9.62
	Cost of 1 no.				971.34
	Say				971.35
18.97.10	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8908	Stainless steel Male threaded Connector/ Adapter for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	840.00	840.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				840.00 W
	Add 1 % Water charges on "W"				8.40
	TOTAL				848.40 X
	Add GST (multiplying factor 0.1405) on "X"				119.20
	TOTAL				967.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.14
	Total				1112.74 Z
	Add Cess @ 1% on "Z"				11.13
	Cost of 1 no.				1123.87
	Say				1123.85
18.97.11	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8909	Stainless steel Male threaded Connector/ Adapter for 48.60 mm outer dia X 50 nominal dia threaded	each	1.00	1138.00	1138.00
	TOTAL				1138.00 W
	Add 1 % Water charges on "W"				11.38
	TOTAL				1149.38 X
	Add GST (multiplying factor 0.1405) on "X"				161.49
	TOTAL				1310.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				196.63
	Total				1507.50 Z
	Add Cess @ 1% on "Z"				15.07
	Cost of 1 no.				1522.57
	Say				1522.55
18.98	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Valve Connector				
18.98.1	For 15.88 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8910	Stainless steel Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	234.00	234.00
	TOTAL				234.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				2.34
	TOTAL				236.34 X
	Add GST (multiplying factor 0.1405) on "X"				33.21
	TOTAL				269.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.43
	Total				309.98 Z
	Add Cess @ 1% on "Z"				3.10
	Cost of 1 no.				313.08
	Say				313.10
18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8911	Stainless steel Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	276.00	276.00
	TOTAL				276.00 W
	Add 1 % Water charges on "W"				2.76
	TOTAL				278.76 X
	Add GST (multiplying factor 0.1405) on "X"				39.17
	TOTAL				317.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.69
	Total				365.61 Z
	Add Cess @ 1% on "Z"				3.66
	Cost of 1 no.				369.27
	Say				369.25
18.98.3	For 22.22 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8912	Stainless steel Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	295.00	295.00
	TOTAL				295.00 W
	Add 1 % Water charges on "W"				2.95
	TOTAL				297.95 X
	Add GST (multiplying factor 0.1405) on "X"				41.86
	TOTAL				339.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				50.97
	Total				390.78 Z
	Add Cess @ 1% on "Z"				3.91

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				394.69
	Say				394.70
18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8913	Stainless steel Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	424.00	424.00
	TOTAL				<u>424.00</u> W
	Add 1 % Water charges on "W"				4.24
	TOTAL				<u>428.24</u> X
	Add GST (multiplying factor 0.1405) on "X"				60.17
	TOTAL				<u>488.41</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				73.26
	Total				<u>561.67</u> Z
	Add Cess @ 1% on "Z"				5.62
	Cost of 1 no.				<u>567.29</u>
	Say				567.30
18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8914	Stainless steel Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	629.00	629.00
	TOTAL				<u>629.00</u> W
	Add 1 % Water charges on "W"				6.29
	TOTAL				<u>635.29</u> X
	Add GST (multiplying factor 0.1405) on "X"				89.26
	TOTAL				<u>724.55</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				108.68
	Total				<u>833.23</u> Z
	Add Cess @ 1% on "Z"				8.33
	Cost of 1 no.				<u>841.56</u>
	Say				841.55
18.98.6	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8915	Stainless steel Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	875.00	875.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				875.00 W
	Add 1 % Water charges on "W"				8.75
	TOTAL				883.75 X
	Add GST (multiplying factor 0.1405) on "X"				124.17
	TOTAL				1007.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				151.19
	Total				1159.10 Z
	Add Cess @ 1% on "Z"				11.59
	Cost of 1 no.				1170.70
	Say				1170.70
18.98.7	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8916	Stainless steel Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	1176.00	1176.00
	TOTAL				1176.00 W
	Add 1 % Water charges on "W"				11.76
	TOTAL				1187.76 X
	Add GST (multiplying factor 0.1405) on "X"				166.88
	TOTAL				1354.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				203.20
	Total				1557.84 Z
	Add Cess @ 1% on "Z"				15.58
	Cost of 1 no.				1573.41
	Say				1573.40
18.99	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Threaded Elbow 90°				
18.99.1	For 15.88 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8917	SS Female Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	150.00	150.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				150.00 W
	Add 1 % Water charges on "W"				1.50
	TOTAL				151.50 X
	Add GST (multiplying factor 0.1405) on "X"				21.29
	TOTAL				172.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.92
	Total				198.70 Z
	Add Cess @ 1% on "Z"				1.99
	Cost of 1 no.				200.69
	Say				200.70
18.99.2	For 22.22 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8918	Stainless steel Female Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	191.00	191.00
	TOTAL				191.00 W
	Add 1 % Water charges on "W"				1.91
	TOTAL				192.91 X
	Add GST (multiplying factor 0.1405) on "X"				27.10
	TOTAL				220.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.00
	Total				253.02 Z
	Add Cess @ 1% on "Z"				2.53
	Cost of 1 no.				255.55
	Say				255.55
18.99.3	For 22.22 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8919	Stainless steel Female Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	191.00	191.00
	TOTAL				191.00 W
	Add 1 % Water charges on "W"				1.91
	TOTAL				192.91 X
	Add GST (multiplying factor 0.1405) on "X"				27.10
	TOTAL				220.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				33.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				253.02 Z
	Add Cess @ 1% on "Z"				2.53
	Cost of 1 no.				255.55
	Say				255.55
18.99.4	For 25.58 mm outer dia x 25 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8920	Stainless steel Female Threaded Elbow 90° for 25.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	205.00	205.00
	TOTAL				205.00 W
	Add 1 % Water charges on "W"				2.05
	TOTAL				207.05 X
	Add GST (multiplying factor 0.1405) on "X"				29.09
	TOTAL				236.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.42
	Total				271.56 Z
	Add Cess @ 1% on "Z"				2.72
	Cost for 1 no.				274.28
	Say				274.30
18.99.5	For 34.00 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8921	Stainless steel Female Threaded Elbow 90° for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	287.00	287.00
	TOTAL				287.00 W
	Add 1 % Water charges on "W"				2.87
	TOTAL				289.87 X
	Add GST (multiplying factor 0.1405) on "X"				40.73
	TOTAL				330.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.59
	Total				380.19 Z
	Add Cess @ 1% on "Z"				3.80
	Cost for 1 no.				383.99
	Say				384.00

18.99.6 For 42.70 mm outer dia x 32 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8922	Stainless steel Female Threaded Elbow 90° for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	478.00	478.00
	TOTAL				478.00 W
	Add 1 % Water charges on "W"				4.78
	TOTAL				482.78 X
	Add GST (multiplying factor 0.1405) on "X"				67.83
	TOTAL				550.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.59
	Total				633.20 Z
	Add Cess @ 1% on "Z"				6.33
	Cost of 1 no.				639.53
	Say				639.55
18.99.7	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8923	Stainless steel Female Threaded Elbow 90° for 42.70 mm outer dia X40 mm nominal dia threaded	each	1.00	478.00	478.00
	TOTAL				478.00 W
	Add 1 % Water charges on "W"				4.78
	TOTAL				482.78 X
	Add GST (multiplying factor 0.1405) on "X"				67.83
	TOTAL				550.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.59
	Total				633.20 Z
	Add Cess @ 1% on "Z"				6.33
	Cost of 1 no.				639.53
	Say				639.55
18.99.8	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8924	Stainless steel Female Threaded Elbow 90° for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.99.9	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8925	Stainless steel Female Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.1	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Threaded Elbow 90O				
18.100.1	For 15.88 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8926	Stainless steel Male Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	191.00	191.00
	TOTAL				191.00 W
	Add 1 % Water charges on "W"				1.91
	TOTAL				192.91 X
	Add GST (multiplying factor 0.1405) on "X"				27.10
	TOTAL				220.01 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				33.00
	Total				253.02 Z
	Add Cess @ 1% on "Z"				2.53
	Cost of 1 no.				255.55
	Say				255.55
18.100.2	For 22.22 mm outer dia x 15 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8927	Stainless steel Male Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	205.00	205.00
	TOTAL				205.00 W
	Add 1 % Water charges on "W"				2.05
	TOTAL				207.05 X
	Add GST (multiplying factor 0.1405) on "X"				29.09
	TOTAL				236.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.42
	Total				271.56 Z
	Add Cess @ 1% on "Z"				2.72
	Cost of 1 no.				274.28
	Say				274.30
18.100.3	For 22.22 mm outer dia x 20 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8928	Stainless steel Male Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	205.00	205.00
	TOTAL				205.00 W
	Add 1 % Water charges on "W"				2.05
	TOTAL				207.05 X
	Add GST (multiplying factor 0.1405) on "X"				29.09
	TOTAL				236.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.42
	Total				271.56 Z
	Add Cess @ 1% on "Z"				2.72
	Cost of 1 no.				274.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Say 274.30

18.100.4 For 28.58 mm outer dia x 25 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8929	Stainless steel Male Threaded Elbow 90° for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	205.00	205.00
	TOTAL				205.00 W
	Add 1 % Water charges on "W"				2.05
	TOTAL				207.05 X
	Add GST (multiplying factor 0.1405) on "X"				29.09
	TOTAL				236.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				35.42
	Total				271.56 Z
	Add Cess @ 1% on "Z"				2.72
	Cost of 1 no.				274.28
	Say				274.30

18.100.5 For 34.00 mm outer dia x 25 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8930	Stainless steel Male Threaded Elbow 90° for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	287.00	287.00
	TOTAL				287.00 W
	Add 1 % Water charges on "W"				2.87
	TOTAL				289.87 X
	Add GST (multiplying factor 0.1405) on "X"				40.73
	TOTAL				330.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.59
	Total				380.19 Z
	Add Cess @ 1% on "Z"				3.80
	Cost of 1 no.				383.99
	Say				384.00

18.100.6 For 34.00 mm outer dia x 32 mm nominal dia threaded

Details of cost for 1 no.

MATERIAL

8931	Stainless steel Male Threaded Elbow 90° for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	287.00	287.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				287.00 W
	Add 1 % Water charges on "W"				2.87
	TOTAL				289.87 X
	Add GST (multiplying factor 0.1405) on "X"				40.73
	TOTAL				330.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				49.59
	Total				380.19 Z
	Add Cess @ 1% on "Z"				3.80
	Cost of 1 no.				383.99
	Say				384.00
18.100.7	For 42.70 mm outer dia x 32 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8932	Stainless steel Male Threaded Elbow 90° for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	478.00	478.00
	TOTAL				478.00 W
	Add 1 % Water charges on "W"				4.78
	TOTAL				482.78 X
	Add GST (multiplying factor 0.1405) on "X"				67.83
	TOTAL				550.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.59
	Total				633.20 Z
	Add Cess @ 1% on "Z"				6.33
	Cost of 1 no.				639.53
	Say				639.55
18.100.8	For 42.70 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8933	Stainless steel Male Threaded Elbow 90° for 42.70 mm outer dia X40 mm nominal dia threaded	each	1.00	478.00	478.00
	TOTAL				478.00 W
	Add 1 % Water charges on "W"				4.78
	TOTAL				482.78 X
	Add GST (multiplying factor 0.1405) on "X"				67.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				550.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				82.59
	Total				633.20 Z
	Add Cess @ 1% on "Z"				6.33
	Cost of 1 no.				639.53
	Say				639.55
18.100.9	For 48.60 mm outer dia x 40 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8934	Stainless steel Male Threaded Elbow 90° for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05
	Cost of 1 no.				913.81
	Say				913.80
18.100.10	For 48.60 mm outer dia x 50 mm nominal dia threaded				
	Details of cost for 1 no.				
	MATERIAL				
8935	Stainless steel Male Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	683.00	683.00
	TOTAL				683.00 W
	Add 1 % Water charges on "W"				6.83
	TOTAL				689.83 X
	Add GST (multiplying factor 0.1405) on "X"				96.92
	TOTAL				786.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				118.01
	Total				904.76 Z
	Add Cess @ 1% on "Z"				9.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 no.				913.81
	Say				913.80
18.101	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Cap				
18.101.1	For 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8936	Stainless steel Cap for 15.88 mm outer dia pipe	each	1.00	45.00	45.00
	TOTAL				45.00 W
	Add 1 % Water charges on "W"				0.45
	TOTAL				45.45 X
	Add GST (multiplying factor 0.1405) on "X"				6.39
	TOTAL				51.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				7.78
	Total				59.61 Z
	Add Cess @ 1% on "Z"				0.60
	Cost of 1 no.				60.21
	Say				60.20
18.101.2	For 22.22 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8937	Stainless steel Cap for 22.22 mm outer dia pipe	each	1.00	64.00	64.00
	TOTAL				64.00 W
	Add 1 % Water charges on "W"				0.64
	TOTAL				64.64 X
	Add GST (multiplying factor 0.1405) on "X"				9.08
	TOTAL				73.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				11.06
	Total				84.78 Z
	Add Cess @ 1% on "Z"				0.85
	Cost of 1 no.				85.63
	Say				85.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.101.3	For 28.58 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8938	Stainless steel Cap for 28.58 mm outer dia pipe	each	1.00	84.00	84.00
	TOTAL				84.00 W
	Add 1 % Water charges on "W"				0.84
	TOTAL				84.84 X
	Add GST (multiplying factor 0.1405) on "X"				11.92
	TOTAL				96.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.51
	Total				111.27 Z
	Add Cess @ 1% on "Z"				1.11
	Cost of 1 no.				112.39
	Say				112.40
18.101.4	For 34.00 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8939	Stainless steel Cap for 34.00 mm outer dia pipe	each	1.00	163.00	163.00
	TOTAL				163.00 W
	Add 1 % Water charges on "W"				1.63
	TOTAL				164.63 X
	Add GST (multiplying factor 0.1405) on "X"				23.13
	TOTAL				187.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				28.16
	Total				215.92 Z
	Add Cess @ 1% on "Z"				2.16
	Cost of 1 no.				218.08
	Say				218.10
18.101.5	For 42.70 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8940	Stainless steel Cap for 42.70 mm outer dia pipe	each	1.00	236.00	236.00
	TOTAL				236.00 W
	Add 1 % Water charges on "W"				2.36
	TOTAL				238.36 X
	Add GST (multiplying factor 0.1405) on "X"				33.49
	TOTAL				271.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				40.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				312.63 Z
	Add Cess @ 1% on "Z"				3.13
	Cost of 1 no.				315.75
	Say				315.75
18.101.6	For 48.60 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8941	Stainless steel Cap for 48.60 mm outer dia pipe	each	1.00	299.00	299.00
	TOTAL				299.00 W
	Add 1 % Water charges on "W"				2.99
	TOTAL				301.99 X
	Add GST (multiplying factor 0.1405) on "X"				42.43
	TOTAL				344.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.66
	Total				396.08 Z
	Add Cess @ 1% on "Z"				3.96
	Cost of 1 no.				400.04
	Say				400.05
18.102	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Pipe Bridge				
18.102.1	For 15.88 mm outer dia pipe				
	Details of cost for 1 no.				
	MATERIAL				
8942	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	1.00	214.00	214.00
	TOTAL				214.00 W
	Add 1 % Water charges on "W"				2.14
	TOTAL				216.14 X
	Add GST (multiplying factor 0.1405) on "X"				30.37
	TOTAL				246.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.98
	Total				283.48 Z
	Add Cess @ 1% on "Z"				2.83
	Cost of 1 no.				286.32
	Say				286.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

18.102.2 For 22.22 mm outer dia pipe

Details of cost for 1 no.

MATERIAL

8943	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	1.00	271.00	271.00
	TOTAL				<u>271.00</u> W
	Add 1 % Water charges on "W"				2.71
	TOTAL				<u>273.71</u> X
	Add GST (multiplying factor 0.1405) on "X"				38.46
	TOTAL				<u>312.17</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				46.82
	Total				<u>358.99</u> Z
	Add Cess @ 1% on "Z"				3.59
	Cost of 1 no.				<u>362.58</u>
	Say				362.60

18.102.3 For 28.58 mm outer dia pipe

Details of cost for 1 no.

MATERIAL

8944	Stainless steel Pipe Bridge for 28.58 mm outer dia pipe	each	1.00	407.00	407.00
	TOTAL				<u>407.00</u> W
	Add 1 % Water charges on "W"				4.07
	TOTAL				<u>411.07</u> X
	Add GST (multiplying factor 0.1405) on "X"				57.76
	TOTAL				<u>468.83</u> Y
	Add 15 % Contractor's profit and overheads on "Y"				70.32
	Total				<u>539.15</u> Z
	Add Cess @ 1% on "Z"				5.39
	Cost for 1 no.				<u>544.54</u>
	Say				544.55

SUB HEAD : 19.0

DRAINAGE

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
19.1.1	100 mm diameter				
	Details of cost for 30 metre				
	MATERIAL				
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	55.00	55.00	3025.00
	Added 10% allowance for breakage				
2224	Carriage of S.W. pipes 100 mm dia	100 metre	0.33	141.51	46.70
	Added 10% allowance for breakage				
	Cement for 50 joints = 0.019 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.019	4940.00	93.86
2209	Carriage of Cement	tonne	0.019	94.34	1.79
983	Fine sand	cum	0.01	900.00	9.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.01	106.13	1.06
1881	Spun yarn	kilogram	4.50	50.00	225.00
	or plain gaskin @ 0.09 kg per joint = 0.09x50 = 4.50 kg				
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.00	476.00	476.00
0024	Mason (brick layer) 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				5536.23 W
	Add 1 % Water charges on "W"				55.36
	TOTAL				5591.59 X
	Add GST (multiplying factor 0.1405) on "X"				785.62
	TOTAL				6377.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				956.58
	Total				7333.79 Z
	Add Cess @ 1% on "Z"				73.34
	Cost of 30 metre				7407.13
	Cost of 1 metre				246.90
	Say				246.90
19.1.2	150 mm diameter				
	Details of cost for 30 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	55.00	100.00	5500.00
	Added 10% allowance for breakage				
2225	Carriage of S.W. pipes 150 mm dia	100 metre	0.33	283.01	93.39
	Added 10% allowance for breakage Cement of 50 joints = 0.036 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.036	4940.00	177.84
2209	Carriage of Cement	tonne	0.036	94.34	3.40
983	Fine sand	cum	0.019	900.00	17.10
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.019	106.13	2.02
1881	Spun yarn or plain gaskin @ 0.18 kg per joint = 0.18x50 = 9 kg	kilogram	9.00	50.00	450.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.50	476.00	714.00
0024	Mason (brick layer) 2nd class	day	1.50	374.50	561.75
0017	Beldar	day	4.00	320.83	1283.32
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				9123.65 W
	Add 1 % Water charges on "W"				91.24
	TOTAL				9214.88 X
	Add GST (multiplying factor 0.1405) on "X"				1294.69
	TOTAL				10509.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				1576.44
	Total				12086.01 Z
	Add Cess @ 1% on "Z"				120.86
	Cost of 30 metre				12206.87
	Cost of 1 metre				406.90
	Say				406.90

19.1.3 200 mm diameter

Details of cost for 30 metre

MATERIAL

1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	55.00	200.00	11000.00
	Added 10% allowance for breakage				
2226	Carriage of S.W. pipes 200 mm dia Added 10% allowance for breakage in items (I) & (ii) Cement of 50 joints = 0.053 tonne	100 metre	0.33	471.69	155.66
367	Portland Cement (OPC-43 grade)	tonne	0.053	4940.00	261.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of Cement	tonne	0.053	94.34	5.00
983	Fine sand	cum	0.028	900.00	25.20
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.028	106.13	2.97
1881	Spun yarn	kilogram	12.00	50.00	600.00
	or plain gaskin @ 0.24 kg per joint = 0.24x50 =12.00 kg				
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.75	476.00	833.00
0024	Mason (brick layer) 2nd class	day	1.75	374.50	655.38
0017	Beldar	day	4.50	320.83	1443.74
0011	Bhisti	day	1.25	320.83	401.04
	TOTAL				15383.80 W
	Add 1 % Water charges on "W"				153.84
	TOTAL				15537.63 X
	Add GST (multiplying factor 0.1405) on "X"				2183.04
	TOTAL				17720.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				2658.10
	Total				20378.77 Z
	Add Cess @ 1% on "Z"				203.79
	Cost of 30 metre				20582.56
	Cost of 1 metre				686.09
	Say				686.10
19.1.4	250 mm diameter				
	Details of cost for 30 metre				
	MATERIAL				
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	55.00	320.00	17600.00
	Added 10% allowance for breakage				
2228	Carriage of S.W. pipes 250 mm dia	100 metre	0.33	808.61	266.84
	Added 10% allowance for breakage				
	Cement of 50 joints = 0.094 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.094	4940.00	464.36
2209	Carriage of Cement	tonne	0.094	94.34	8.87
983	Fine sand	cum	0.05	900.00	45.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.05	106.13	5.31
1881	Spun yarn	kilogram	15.00	50.00	750.00
	or plain gaskin @ 0.30 kg per joint = 0.30x50= 15.00 kg				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	2.25	476.00	1071.00
0024	Mason (brick layer) 2nd class	day	2.25	374.50	842.63
0017	Beldar	day	5.50	320.83	1764.57
0011	Bhisti	day	1.50	320.83	481.25
	TOTAL				23299.81 W
	Add 1 % Water charges on "W"				233.00
	TOTAL				23532.81 X
	Add GST (multiplying factor 0.1405) on "X"				3306.36
	TOTAL				26839.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				4025.88
	Total				30865.04 Z
	Add Cess @ 1% on "Z"				308.65
	Cost of 30 metre				31173.69
	Cost of 1 metre				1039.12
	Say				1039.10
19.1.5	300 mm diameter				
	Details of cost for 30 metre				
	MATERIAL				
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	55.00	478.00	26290.00
	Added 10% allowance for breakage				
2229	Carriage of S.W. pipes 300 mm dia	100 metre	0.33	1010.76	333.55
	Added 10% allowance for breakage				
	Cement of 50 joints = 0.125 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.125	4940.00	617.50
2209	Carriage of Cement	tonne	0.125	94.34	11.79
983	Fine sand	cum	0.075	900.00	67.50
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.075	106.13	7.96
1881	Spun yarn or plain gaskin @ 0.36 kg / joint = 0.36x50 =18.00 kg	kilogram	18.00	50.00	900.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	2.50	476.00	1190.00
0024	Mason (brick layer) 2nd class	day	2.50	374.50	936.25
0017	Beldar	day	6.00	320.83	1924.98
0011	Bhisti	day	1.50	320.83	481.25
	TOTAL				32760.78 W
	Add 1 % Water charges on "W"				327.61
	TOTAL				33088.39 X
	Add GST (multiplying factor 0.1405) on "X"				4648.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				37737.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				5660.60
	Total				43397.90 Z
	Add Cess @ 1% on "Z"				433.98
	Cost of 30 metre				43831.88
	Cost of 1 metre				1461.06
	Say				1461.05
19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
19.2.1	100 mm diameter S.W. pipe				
	Details of cost for 10 metre				
	Area = $W \times W/2 + \frac{1}{2} \times (3.14 \times W^2 / 4)$				
	- $(3.14 \times D^2 / 4)$				
	= $W^2 \times (0.5 + 3.14 / 8) - (3.14 \times D^2 / 4)$				
	Where $W = D + X$				
	$D = 100 + 12 + 12 = 124$ mm or 12.4 cm				
	$X = 300$ mm as trench depth is less than 1200 mm				
	$W = 12.4 + 30 = 42.4$				
	Area =				
	= $42.4^2 \times (0.5 + 3.14 / 8) - (3.14 \times 12.4^2 / 4) = 1484$				
	sqcm = 0.1484 sqm Say 0.148 sqm For 10 m length				
	qty. of concrete reqd. = 1.48 cum				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.48	4685.75	6934.90 A
	Cost of 10 metres				6934.90
	Cost of metre				693.49
	Say				693.50
19.2.2	150 mm diameter S.W. pipe				
	Details of cost for 10 metre				
	Area = $W \times W/2 + \frac{1}{2} \times (3.14 \times W^2 / 4)$				
	- $(3.14 \times D^2 / 4)$				
	= $W^2 \times (0.5 + 3.14 / 8) - (3.14 \times D^2 / 4)$ Where $W =$				
	$D + X$				
	$D = 150 + 16 + 16 = 182$ mm or 18.2 cm				
	$X = 300$ mm as trench depth is less than 1200 mm				
	$W = 18.2 + 30 = 48.2$				
	Area				
	= $48.2^2 \times (0.5 + 3.14 / 8) - (3.14 \times 18.2^2 / 4)$				
	= 1807.66 sqcm = 0.1808 sqm				
	Say 0.181 sqm				
	For 10 m length qty. of concrete reqd. = 1.81 cum				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.81	4685.75	8481.20 A
	Cost of 10 metres				8481.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of metre				848.12
	Say				848.10
19.2.3	200 mm diameter S.W. pipe				
	Details of cost for 10 metre				
	Area = $W \times W/2 + \frac{1}{2} \times (3.14 \times W^2 / 4)$				
	- $(3.14 \times D^2 / 4)$				
	= $W^2 \times (0.5 + 3.14 / 8) - (3.14 \times D^2 / 4)$				
	Where $W = D + X$				
	$D = 200 + 17 + 17 = 234$ mm or 23.4 cm				
	$X = 300$ mm as trench depth is less than 1200 mm				
	$W = 23.4 + 30 = 53.4$				
	Area				
	= $53.4^2 \times (0.5 + 3.14 / 8) - (3.14 \times 23.4^2 / 4) = 2115$				
	sqcm = 0.2115 sqm Say 0.211 sqm For 10 m length				
	qty. of concrete reqd. = 2.11 cum				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	2.11	4685.75	9886.93 A
	Cost of 10 metres				9886.93
	Cost of metre				988.69
	Say				988.70
19.2.4	250 mm diameter S.W. pipe				
	Details of cost for 10 metre				
	Area = $W \times W/2 + \frac{1}{2} \times (3.14 \times W^2 / 4)$				
	- $(3.14 \times D^2 / 4)$				
	= $W^2 \times (0.5 + 3.14 / 8) - (3.14 \times D^2 / 4)$				
	Where $W = D + X$				
	$D = 250 + 20 + 20 = 290$ mm or 29.0 cm				
	$X = 300$ mm as trench depth is less than 1200 mm				
	$W = 29 + 30 = 59$				
	Area				
	= $59^2 \times (0.5 + 3.14 / 8) - (3.14 \times 29^2 / 4)$				
	= 2447 sqcm = 0.2447 sqm. Say 0.244 sqm For 10 m length				
	qty. of concrete reqd. = 2.44 cum				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	2.44	4685.75	11433.22 A
	Cost of 10 metres				11433.22
	Cost of metre				1143.32
	Say				1143.30
19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				
19.3.1	100 mm diameter S.W. pipe				
	Details of cost for 10 metre length pipe				
	Area = $W \times D + 2 \times \frac{1}{2} \times R \cot Q \times R - [R^2 / 2(3.14/2 - Q)] - (3.14/2)R^2$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$= WD1 + R^2(\cot Q) - R^2(3.14/2 - Q) - (3.14/2)R^2$ $= WD1 + R^2(\cot Q - 3.14 + Q)$ Where $\sin Q = [R/(W/2)] = 2R/W$ $W = D + X$; $X = 300 \text{ mm}$, $D = 100 + 12 + 12 = 124 \text{ mm}$ $W = 124 + 300 = 424 \text{ mm}$ $D1 = \text{Depth} = 100 + (\frac{1}{2} \times 124) = 162 \text{ mm}$ $R = 62 \text{ mm}$ $\sin Q = (2 \times 62)/424 = 0.292$ therefor $Q = 17^\circ 0'$ Hence $\tan Q = 0.3057$ $\text{Area} = 424 \times 162 + (62)^2 (\cot Q - 3.14 + Q)$ $= [68688 + 3844 (1/0.3057 - 180^\circ + 17^\circ 0')]$ sqmm $= [68688 + 3844 (3.27 - 163^\circ 0' \times 3.14/180)]$ sqmm $= (68688 + 3844 \times 0.43) \text{ sqmm}$ $= (68688 + 1652.92) \text{ sqmm}$ $= 70340.92 \text{ sqmm}$ Say 70341 sqmm or 0.070341 sqm For 10 m length qty. of concrete reqd. = $0.07034 \times 10 = 0.7034 \text{ cum}$ Rate as per item no 4.1.10 of SH : Concrete Work cum 0.7034 4685.75 3295.95 A Cost of 10 metres 3295.95 Cost per metre 329.60 Say 329.60				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	0.7034	4685.75	3295.95 A
	Cost of 10 metres				3295.95
	Cost per metre				329.60
	Say				329.60
19.3.2	150 mm diameter S.W. pipe				
	Details of cost for 10 metre length pipe $\text{Area} = W \times D1 + 2 \times \frac{1}{2} \times R \cot Q \times R$ $- [R^2/2(3.14/2 - Q)] - (3.14/2)R^2$ $= WD1 + R^2(\cot Q) - R^2(3.14/2 - Q) - (3.14/2)R^2$ $= WD1 + R^2(\cot Q - 3.14 + Q)$ Where $\sin Q = [R/(W/2)] = 2R/W$ $W = D + X$; $X = 300 \text{ mm}$, $D = 150 + 16 + 16 = 182 \text{ mm}$ $W = 182 + 300 = 482 \text{ mm}$ $D1 = \text{Depth} = 150 + (\frac{1}{2} \times 182) = 241 \text{ mm}$ $R = 91 \text{ mm}$ $\sin Q = (2 \times 91)/482 = 0.3776$ therefor $Q = 22^\circ 12'$ Hence $\tan Q = 0.4081$ $\text{Area} = 482 \times 241 + (91)^2 (\cot Q - 3.14 + Q)$ $= [116162 + 8281 (1/0.4081 - 180^\circ + 22^\circ 12')]$ sqmm $= [116162 + 8281 (2.45 - 157^\circ 48' \times 3.14/180)]$ sqmm $= [116162 + 8281 \times (2.45 - 2.75)]$ sqmm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$= [116162 + 8281 \times (-0.30)] \text{ sqmm}$ $= (116162 - 2484.3) \text{ sqmm} = 113677.7 \text{ sqmm}$ Say 113677.7 sqmm or 0.1136777 sqm For 10 m length atv. of concrete reqd. $= 0.1136777 \times 10 = 1.136777 \text{ cum}$ Say 1.14 cum				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.14	4685.75	5341.75 A
	Cost of 10 metres				5341.75
	Cost per metre				534.18
	Say				534.20

19.3.3 200 mm diameter S.W. pipe

Details of cost for 10 metre length pipe

$$\begin{aligned} \text{Area} &= W \times D1 + 2 \times \frac{1}{2} \times R \cot Q \times R - [R^2/2(3.14/2 - Q)] - (3.14/2)R^2 = WD1 + R^2(\cot Q) - R^2(3.14/2 - Q) \\ &= WD1 + R^2(\cot Q - 3.14/2 + Q) \end{aligned}$$

$$\text{Where } \sin Q = [R/(W/2)] = 2R/W$$

$$W = D + X; X = 300 \text{ mm}, D = 200 + 17 + 17 = 234 \text{ mm}$$

$$W = 234 + 300 = 534 \text{ mm}$$

$$D1 = \text{Depth} = 150 + (\frac{1}{2} \times 234) = 267 \text{ mm}$$

$$R = 117 \text{ mm}$$

$$\sin Q = (2 \times 117)/534 = 0.4382 \text{ therefor}$$

$$Q = 26^\circ 0'$$

$$\text{Hence } \tan Q = 0.4877$$

$$\text{Area} = 534 \times 267 + (117)^2 (\cot Q - 3.14/2 + Q)$$

$$= [142578 + 13689 (1/0.4877 - 180^\circ + 26^\circ 0')]$$

$$\text{sqmm}$$

$$= [142578 + 13689 (2.05 - 154^\circ 0' \times 3.14/180)]$$

$$\text{sqmm}$$

$$= [142578 + 13689 \times (2.05 - 2.69)] \text{ sqmm}$$

$$= [142578 + 13689 \times (-0.64)] \text{ sqmm}$$

$$= (142578 - 8760.96) \text{ sqmm}$$

$$= 133817.04 \text{ sqmm}$$

$$\text{Say } 133817 \text{ sqmm or } 0.134 \text{ sqm}$$

$$\text{For 10 m length qty. of concrete reqd.}$$

$$= 0.134 \times 10 = 1.34 \text{ cum}$$

4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.34	4685.75	6278.9 A
	Cost of 10 metres				6278.90
	Cost per metre				627.89
	Say				627.90

19.3.4 250 mm diameter S.W. pipe

Details of cost for 10 metre length pipe

$$\text{Area} = W \times D1 + 2 \times \frac{1}{2} \times R \cot Q \times R -$$

$$[R^2/2(3.14/2 - Q)] - (3.14/2)R^2$$

$$= WD1 + R^2(\cot Q) - R^2(3.14/2 - Q) -$$

$$(3.14/2)R^2$$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$= WD1 + R^2(\cot Q - 3.14 + Q)$ Where $\sin Q = [R/(W/2)] = 2R/W$ $W = D + X$; $X = 300 \text{ mm}$, $D = 250 + 20 + 20 = 290 \text{ mm}$ $W = 290 + 300 = 590 \text{ mm}$ $D1 = \text{Depth} = 150 + (\frac{1}{2} \times 290) = 295 \text{ mm}$ $R = 145 \text{ mm}$ $\sin Q = (2 \times 145)/590 = 0.49154$ therefor $Q = 29^\circ 26'$ Hence $\tan Q = 0.5635$ Area = $590 \times 295 + (145)^2 (\cot Q - 3.14 + Q)$ = $[174050 + 21025 (1/0.5635 - 180^\circ + 29^\circ 26')]$ sqmm = $[174050 + 21025 (1.77 - 150^\circ 34' \times 3.14/180)]$ sqmm = $[174050 + 21025 \times (1.77 - 2.63)]$ sqmm = $[174050 + 21025 \times (-0.86)]$ sqmm = $(174050 - 18081.5)$ sqmm = 155968.5 sqmm Say 155968 sqmm or 0.156 sqm For 10 m length qty. of concrete reqd. = $0.156 \times 10 = 1.56 \text{ cum}$				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.56	4685.75	7309.76 A
	Cost of 10 metres				7309.76
	Cost per metre				730.98
	Say				731.00
19.3.5	300 mm diameter S.W. pipe Details of cost for 10 metre length pipe Area = $W \times D1 + 2 \times \frac{1}{2} \times R \cot Q \times R$ - $[R^2/2(3.14/2 - Q)] - (3.14/2)R^2$ = $WD1 + R^2(\cot Q) - R^2(3.14/2 - Q) - (3.14/2)R^2$ = $WD1 + R^2(\cot Q - 3.14 + Q)$ Where $\sin Q = [R/(W/2)] = 2R/W$ $W = D + X$; $X = 300 \text{ mm}$, $D = 300 + 25 + 25 = 350 \text{ mm}$ $W = 350 + 300 = 650 \text{ mm}$ $D1 = \text{Depth} = 150 + (\frac{1}{2} \times 350) = 325 \text{ mm}$ $R = 175 \text{ mm}$ $\sin Q = (2 \times 175)/650 = 0.5385$ therefor $Q = 32^\circ 34'$ Hence $\tan Q = 0.6387$ Area = $650 \times 325 + (175)^2 (\cot Q - 3.14 + Q)$ = $[211250 + 30625 (1/0.6387 - 180^\circ + 32^\circ 34')]$ sqmm = $[211250 + 30625 (1.566 - 147^\circ 26' \times 3.14/180)]$ sqmm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$= [211250 + 30625 \times (1.566-2.571)] \text{ sqmm}$ $= [211250 + 30625 \times (-1.005)] \text{ sqmm}$ $= [211250 - 30778.13] \text{ sqmm}$ $= 180471.87 \text{ sqmm}$ Say 0.180 sqm For 10 m length qty. of concrete reqd. = $0.180 \times 10 = 1.80 \text{ cum}$				
4.1.10	Rate as per item no 4.1.10 of SH : Concrete Work	cum	1.80	4685.75	8434.344 A
	Cost of 10 metres				8434.34
	Cost per metre				843.43
	Say				843.45
19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
19.4.1	100x100 mm size P type				
19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost of one gully tarp				
1900	S.W. gully trap P type 100x100 mm	each	1.00	100.00	100.00
1364	C.I. grating 100x100 mm	each	1.00	40.22	40.22
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) $0.68 \times 0.68 \times 0.10 \text{ m} = 0.046 \text{ cum}$ Concrete around trap $0.30 \times 0.30 \times 0.675 \text{ m} = 0.061 \text{ cum}$ Total=0.107 cum Deduct: $0.345 \div 3 \times [0.09 + 0.01 + (0.09 \times 0.01)^{1/2}]$ $= 0.015 \text{ cum}$ $3.14/4 \times (0.124)^2 \times 0.47 = 0.006 \text{ cum}$ Total= 0.021 cum Net quantity 0.107 cum (-) 0.021 cum $= 0.086 \text{ cum}$ say 0.09 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.09	4390.60	395.15 A
	Brick work with 7.5 class designation brick in cement mortar 1:4 (1 cement : 4 coarse sand) $1.66 \times 0.115 \times 0.675 \text{ m} = 0.129 \text{ cum}$ say 0.13 cum				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.13	5528.25	718.67 A
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) $1.66 \times 0.115 \times 0.04 \text{ m} = 0.008 \text{ cum}$				
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work	cum	0.008	7107.10	56.86 A
	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : $[1/2 \times 0.358 \times (1.20 + 0.40)] = 0.286 \text{ sqm}$ say 0.29 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.29	235.50	68.29 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1865.20 W
	Add 1 % Water charges on "W-A"		626.22		6.26
	TOTAL				1871.46 X
	Add GST (multiplying factor 0.1405) on "X-A"		632.48		88.86
	TOTAL				1960.32 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		721.35		108.20
	Total				2068.53 Z
	Add Cess @ 1% on "Z-A"		829.55		8.30
	Cost of each				2076.82
	Say				2076.80

19.4.1.2 With Sewer bricks conforming to IS : 4885

	Detaila of cost of one gully tarp				
1900	S.W. gully trap P type 100x100 mm	each	1.00	100.00	100.00
1364	C.I. grating 100x100 mm	each	1.00	40.22	40.22
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.68x0.68x0.10 m = 0.046 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total=0.107 cum Deduct: 0.345÷3x[0.09+0.01+(0.09x0.01)1/2] = 0.015 cum 3.14/4x(0.124) ² x0.47 = 0.006 cum Total = 0.021 cum Net quantity 0.107 cum (-) 0.021 cum = 0.086 cum say 0.09 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.09	4390.60	395.15 A
	Brick work with modular extruded burnt fly ash clay sewer brick in (confirming to IS 4885) cement mortar 1:4 (1 cement :4 coarse sand) 1.66x0.115x0.675 m = 0.129 cum say 0.13 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	0.13	5715.20	742.98 A
4.2.3	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m = 0.008 cum Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : [1/2x0.358x(1.20+0.40)] = 0.286 sqm say 0.29 sqm	cum	0.008	7107.10	56.86 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.29	235.50	68.29 A
	TOTAL				1889.50 W
	Add 1 % Water charges on "W-A"		626.22		6.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1895.76 X
	Add GST (multiplying factor 0.1405) on "X-A"		632.48		88.86
	TOTAL				1984.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		721.35		108.20
	Total				2092.83 Z
	Add Cess @ 1% on "Z-A"		829.55		8.30
	Cost of each				2101.12
	Say				2101.10
19.4.2	150 x 100 mm size P type				
19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost of one gully tarp				
1902	S.W. gully trap P type 150x100 mm	each	1.00	130.00	130.00
1366	C.I. grating 150x150 mm	each	1.00	54.42	54.42
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
4.1.11	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.68x0.68x0.10 m = 0.046 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total =0.107 cum Deduct: 0.322÷3x[0.09+0.023+(0.09x0.023)1/2] = 0.017 cum 3.14/4x(0.124)²x0.485 = 0.006 cum Total = 0.023 cum Net quantity 0.107 cum (-) 0.023 cum = 0.084 cum say 0.08 cum Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.08	4390.60	351.25 A
6.1.1	Brick work with 75 class designation brick in cement mortar 1:4 (1 cement :4 coarse sand) 1.66x0.115x0.675 m = 0.129 cum say 0.13 cum Rate as per item no 6.1.1 of SH : Brick Work	cum	0.13	5528.25	718.67 A
4.2.3	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m = 0.008 cum Rate as per item no 4.2.3 of SH : Concrete Work	cum	0.008	7107.10	56.86 A
13.9.1	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : [1/2x0.337x(1.20+0.60)] = 0.303 sqm say 0.30 sqm Rate as per item no 13.9.1 of SH : Finishing	sqm	0.30	235.50	70.65 A
	TOTAL				1867.85
	Add 1 % Water charges on "W-A"		670.42		6.70
	TOTAL				1874.55 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"		677.12		95.14
	TOTAL				1969.69 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		772.26		115.84
	Total				2085.53 Z
	Add Cess @ 1% on "Z-A"		888.10		8.88
	Cost of each				2094.41
	Say				2094.40

19.4.2.2 With sewer bricks conforming to IS : 4885

Details of cost of one gully tarp

1902	S.W. gully trap P type 150x100 mm	each	1.00	130.00	130.00
1366	C.I. grating 150x150 mm	each	1.00	54.42	54.42
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.68x0.68x0.10 m = 0.046 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total = 0.107 cum Deduct: 0.322÷3x[0.09+0.023+(0.09x0.023)1/2] = 0.017 cum 3.14/4x(0.124) ² x0.485 = 0.006 cum Total= 0.023 cum Net quantity 0.107 cum (-) 0.023 cum = 0.084 cum say 0.08 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Brick work with sewer bricks conforming to IS:4885 in cement mortar 1:4 (1 cement :4 coarse sand)	cum	0.08	4390.60	351.25 A
	1.66x0.115x0.675 m = 0.129 cum say 0.13 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m = 0.008 cum	cum	0.13	5715.20	742.98 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work	cum	0.008	7107.10	56.86 A
	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : [1/2x0.166x(1.20+0.72)] = 0.159 sqm say 0.160 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.30	235.50	70.65 A
	TOTAL				1892.15 W
	Add 1 % Water charges on "W-A"		670.42		6.70
	TOTAL				1898.85 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	677.12			95.14
	TOTAL				1993.99 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	772.26			115.84
	Total				2109.83 Z
	Add Cess @ 1% on "Z-A"	888.10			8.88
	Cost of each				2118.71
	Say				2118.70

19.4.3 180x150 mm size P type

19.4.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

	Details of cost of one gully tarp				
1904	S.W. gully trap P type 180x150 mm	each	1.00	225.00	225.00
1367	C.I. grating 180x180 mm	each	1.00	65.00	65.00
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.68x0.68x0.10 m = 0.046 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total=0.107 cum Deduct: 0.155+3x[0.09+0.032+(0.09x0.032)1/2] = 0.008 cum 3.14/4x(0.182) ² x0.70 =0.018 cum Total= 0.026 cum Net quantity 0.107 cum (-) 0.026 cum = 0.081 cum say 0.08 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Brick work with 75 class designation brick in cement mortar 1:4 (1 cement : 4 coarse sand) 1.66x0.115x0.675 m = 0.129 cum say 0.13 cum	cum	0.08	4390.60	351.25 A
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m =0.008 cum	cum	0.13	5528.25	718.67 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : [1/2x0.166x(1.20+0.72)] = 0.159 sqm say 0.16 sqm	cum	0.008	7107.10	56.86 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.16	235.50	37.68 A
	TOTAL				1940.46 W
	Add 1 % Water charges on "W-A"	776.00			7.76
	TOTAL				1948.22 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	783.76			110.12
	TOTAL				2058.34 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	893.88			134.08
	Total				2192.42 Z
	Add Cess @ 1% on "Z-A"	1027.96			10.28
	Cost of each				2202.70
	Say				2202.70

19.4.3.2 With Sewer bricks conforming to IS : 4885

	Details of cost of one gully tarp				
1904	S.W. gully trap P type 180x150 mm	each	1.00	225.00	225.00
1367	C.I. grating 180x180 mm	each	1.00	65.00	65.00
1352	C.I. cover and frame 300x300 mm inside	each	1.00	477.00	477.00
9977	Carriage of materials	L.S.	4.50	2.00	9.00
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.68x0.68x0.10 m = 0.046 cum Concrete around trap 0.30x0.30x0.675 m = 0.061 cum Total=0.107 cum Deduct: 0.155÷3x[0.09+0.032+(0.09x0.032)1/2] = 0.008 cum 3.14/4x(0.182) ² x0.70 =0.018 cum Total= 0.026 cum Net quantity 0.107 cum (-) 0.026 cum = 0.081 cum say 0.08 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Brick work with sewer bricks conforming to IS:4885 in cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.08	4390.60	351.25 A
	1.66x0.115x0.675 m = 0.129 cum say 0.13 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 1.66x0.115x0.04 m =0.008 cum	cum	0.13	5715.20	742.98 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement : [1/2x0.166x(1.20+0.72)] = 0.159 sqm say 0.16 sqm	cum	0.008	7107.10	56.86 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.16	235.50	37.68 A
	TOTAL				1964.76 W
	Add 1 % Water charges on "W-A"	776.00			7.76
	TOTAL				1972.52 X
	Add GST (multiplying factor 0.1405) on "X-A"	783.76			110.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2082.64 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	893.88			134.08
	Total				2216.72 Z
	Add Cess @ 1% on "Z-A"	1027.96			10.28
	Cost of each				2227.00
	Cost of each				2227.00
	Say				2227.00
19.5	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :				
19.5.1	100 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.36	320.83	115.50
	TOTAL				272.71 W
	Add 1 % Water charges on "W"				2.73
	TOTAL				275.43 X
	Add GST (multiplying factor 0.1405) on "X"				38.70
	TOTAL				314.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				47.12
	Total				361.25 Z
	Add Cess @ 1% on "Z"				3.61
	Cost of 10 metres				364.86
	Cost of 1 metre				36.49
	Say				36.50
19.5.2	150 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.45	320.83	144.37
	TOTAL				301.58 W
	Add 1 % Water charges on "W"				3.02
	TOTAL				304.60 X
	Add GST (multiplying factor 0.1405) on "X"				42.80
	TOTAL				347.39 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				52.11
	Total				399.50 Z
	Add Cess @ 1% on "Z"				4.00
	Cost of 10 metres				403.50
	Cost of 1 metre				40.35
	Say				40.35
19.5.3	200 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.51	320.83	163.62
	TOTAL				320.83 W
	Add 1 % Water charges on "W"				3.21
	TOTAL				324.04 X
	Add GST (multiplying factor 0.1405) on "X"				45.53
	TOTAL				369.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				55.43
	Total				425.00 Z
	Add Cess @ 1% on "Z"				4.25
	Cost of 10 metres				429.25
	Cost of 1 metre				42.93
	Say				42.95
19.5.4	250 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.57	320.83	182.87
	TOTAL				340.08 W
	Add 1 % Water charges on "W"				3.40
	TOTAL				343.48 X
	Add GST (multiplying factor 0.1405) on "X"				48.26
	TOTAL				391.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.76
	Total				450.50 Z
	Add Cess @ 1% on "Z"				4.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metres				455.01
	Cost of 1 metre				45.50
	Say				45.50
19.5.5	300 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.49	320.83	157.21
0018	Coolie	day	0.63	320.83	202.12
	TOTAL				359.33 W
	Add 1 % Water charges on "W"				3.59
	TOTAL				362.92 X
	Add GST (multiplying factor 0.1405) on "X"				50.99
	TOTAL				413.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.09
	Total				476.00 Z
	Add Cess @ 1% on "Z"				4.76
	Cost of 10 metres				480.76
	Cost of 1 metre				48.08
	Say				48.10
19.5.6	350 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.6	320.83	192.50
0018	Coolie	day	0.69	320.83	221.37
	TOTAL				413.87 W
	Add 1 % Water charges on "W"				4.14
	TOTAL				418.01 X
	Add GST (multiplying factor 0.1405) on "X"				58.73
	TOTAL				476.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.51
	Total				548.25 Z
	Add Cess @ 1% on "Z"				5.48
	Cost of 10 metres				553.73
	Cost of 1 metre				55.37
	Say				55.35
19.5.7	400 mm diameter				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.75	320.83	240.62
	TOTAL				452.37 W
	Add 1 % Water charges on "W"				4.52
	TOTAL				456.89 X
	Add GST (multiplying factor 0.1405) on "X"				64.19
	TOTAL				521.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				78.16
	Total				599.25 Z
	Add Cess @ 1% on "Z"				5.99
	Cost of 10 metres				605.24
	Cost of 1 metre				60.52
	Say				60.50
19.5.8	450 mm diameter				
	Details of cost for 10 metre				
	LABOUR				
0017	Beldar	day	0.66	320.83	211.75
0018	Coolie	day	0.81	320.83	259.87
	TOTAL				471.62 W
	Add 1 % Water charges on "W"				4.72
	TOTAL				476.34 X
	Add GST (multiplying factor 0.1405) on "X"				66.93
	TOTAL				543.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				81.49
	Total				624.75 Z
	Add Cess @ 1% on "Z"				6.25
	Cost of 10 metres				631.00
	Cost of 1 metre				63.10
	Say				63.10
19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
19.6.1	100 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
1700	R.C.C. pipes NP2 class 100 mm dia (in 2 m. length = 5 Nos.)	metre	10.000	200.00	2000.00
1714	R.C.C. collars NP2 class 100 mm dia 5 Nos.	each	5.000	30.00	150.00
2275	Carriage of R.C.C. pipes 100 mm dia Cement of 5 joints = $5 \times 0.00065 = 0.00325$ cum = 0.0048 t say 0.005 tonne	100 metre	0.100	231.98	23.20
367	Portland Cement (OPC-43 grade)	tonne	0.005	4940.00	24.70
2209	Carriage of Cement	tonne	0.005	94.34	0.47
Fine sand for 5 joint = $0.0013 \times 5 = 0.0065$ cum = 0.006 cum					
983	Fine sand	cum	0.006	900.00	5.40
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.006	106.13	0.64
LABOUR					
0023	Mason (brick layer) 1st class	day	0.32	476.00	152.32
0024	Mason (brick layer) 2nd class	day	0.32	374.50	119.84
0017	Beldar	day	0.63	320.83	202.12
0011	Bhisti	day	0.16	320.83	51.33
TOTAL					2730.02 W
Add 1 % Water charges on "W"					27.30
TOTAL					2757.32 X
Add GST (multiplying factor 0.1405) on "X"					387.40
TOTAL					3144.73 Y
Add 15 % Contractor's profit and overheads on "Y"					471.71
Total					3616.43 Z
Add Cess @ 1% on "Z"					36.16
Cost of 10 metres					3652.60
Cost of 1 metre					365.26
Say					365.25

19.6.2 150 mm dia. R.C.C. pipe

Details of cost for 10 metre

MATERIAL

1701	R.C.C. pipes NP2 class 150 mm dia (in 2 m. length = 5 Nos.)	metre	10.00	212.00	2120.00
1715	R.C.C. collars NP2 class 150 mm dia 5 Nos.	each	5.00	35.00	175.00
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	0.10	386.63	38.66
Cement of 5 joints = 5×0.0008					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.004 cum = 0.006 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.006	4940.00	29.64
2209	Carriage of Cement	tonne	0.006	94.34	0.57
	Fine sand for 5 joint = 0.0016x5 = 0.008 cum				
983	Fine sand	cum	0.008	900.00	7.20
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.008	106.13	0.85
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.39	476.00	185.64
0024	Mason (brick layer) 2nd class	day	0.39	374.50	146.06
0017	Beldar	day	0.78	320.83	250.25
0011	Bhisti	day	0.16	320.83	51.33
	TOTAL				3005.19 W
	Add 1 % Water charges on "W"				30.05
	TOTAL				3035.25 X
	Add GST (multiplying factor 0.1405) on "X"				426.45
	TOTAL				3461.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				519.25
	Total				3980.95 Z
	Add Cess @ 1% on "Z"				39.81
	Cost of 10 metres				4020.76
	Cost of 1 metre				402.08
	Say				402.10
19.6.3	250 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1702	R.C.C. pipes NP2 class 250 mm dia (in 2 m. length =	metre	10.00	350.00	3500.00
1716	R.C.C. collars NP2 class 250 mm dia 5 Nos.	each	5.00	50.00	250.00
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	0.10	893.73	89.37
	Cement of 5 joints = 5x0.0012 = 0.006 cum = 0.009tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.009	4940.00	44.46
2209	Carriage of Cement	tonne	0.009	94.34	0.85
	Fine sand for 5 joint = 0.0024x5 = 0.012 cum				0.00
983	Fine sand	cum	0.012	900.00	10.80
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts	cum	0.012	106.13	1.27
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.54	476.00	257.04
0024	Mason (brick layer) 2nd class	day	0.54	374.50	202.23
0017	Beldar	day	1.50	320.83	481.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Bhisti	day	0.23	320.83	73.79
	TOTAL				4911.06 W
	Add 1 % Water charges on "W"				49.11
	TOTAL				4960.17 X
	Add GST (multiplying factor 0.1405) on "X"				696.90
	TOTAL				5657.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				848.56
	Total				6505.64 Z
	Add Cess @ 1% on "Z"				65.06
	Cost of 10 metres				6570.69
	Cost of 1 metre				657.07
	Say				657.05
19.6.4	300 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1703	R.C.C. pipes NP2 class 300 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	445.00	4450.00
1717	R.C.C. collars NP2 class 300 mm dia 4 Nos.	each	4.00	55.00	220.00
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	0.10	1104.66	110.47
	Cement of 4 joints = 4x0.00185 = 0.0074 cum = 0.011 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.011	4940.00	54.34
2209	Carriage of Cement	tonne	0.011	94.34	1.04
	Fine sand for 4 joint = 0.0037x4 = 0.0148 say 0.015cum				
983	Fine sand	cum	0.015	900.00	13.50
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.015	106.13	1.59
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.59	476.00	280.84
0024	Mason (brick layer) 2nd class	day	0.59	374.50	220.96
0017	Beldar	day	1.16	320.83	372.16
0011	Bhisti	day	0.20	320.83	64.17
	TOTAL				5789.06 W
	Add 1 % Water charges on "W"				57.89
	TOTAL				5846.95 X
	Add GST (multiplying factor 0.1405) on "X"				821.50
	TOTAL				6668.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				1000.27
	Total				7668.71 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				76.69
	Cost of 10 metres				7745.40
	Cost of 1 metre				774.54
	Say				774.55
19.6.5	450 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1704	R.C.C. pipes NP2 class 450 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	750.00	7500.00
1718	R.C.C. collars NP2 class 450 mm dia 4 Nos.	each	4.00	100.00	400.00
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0.10	2577.54	257.75
	Cement of 4 joints = $4 \times 0.0041 = 0.0164$ cum = 0.024 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.024	4940.00	118.56
2209	Carriage of Cement	tonne	0.024	94.34	2.26
	Fine sand for 4 joint = $0.0082 \times 4 = 0.033$ cum				
983	Fine sand	cum	0.033	900.00	29.70
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.033	106.13	3.50
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.75	476.00	357.00
0024	Mason (brick layer) 2nd class	day	0.75	374.50	280.88
0017	Beldar	day	1.50	320.83	481.25
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				9536.77 W
	Add 1 % Water charges on "W"				95.37
	TOTAL				9632.14 X
	Add GST (multiplying factor 0.1405) on "X"				1353.32
	TOTAL				10985.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				1647.82
	Total				12633.28 Z
	Add Cess @ 1% on "Z"				126.33
	Cost of 10 metres				12759.61
	Cost of 1 metre				1275.96
	Say				1275.95
19.6.6	500 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1705	R.C.C. pipes NP2 class 500 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	925.00	9250.00
1719	R.C.C. collars NP2 class 500 mm dia 4 Nos.	each	4.00	115.00	460.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0.10	2577.54	257.75
	Cement of 4 joints = 4x0.0045 = 0.018 cum = 0.026 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.026	4940.00	128.44
2209	Carriage of Cement	tonne	0.026	94.34	2.45
	Fine sand for 4 joints = 0.0089x4 = 0.0356 cum = 0.036 cum				
983	Fine sand	cum	0.036	900.00	32.40
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) LABOUR	cum	0.036	106.13	3.82
0023	Mason (brick layer) 1st class	day	0.81	476.00	385.56
0024	Mason (brick layer) 2nd class	day	0.81	374.50	303.35
0017	Beldar	day	1.62	320.83	519.74
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				11449.39 W
	Add 1 % Water charges on "W"				114.49
	TOTAL				11563.88 X
	Add GST (multiplying factor 0.1405) on "X"				1624.73
	TOTAL				13188.61 Y
	Add 15 % Contractor's profit and overheads on "Y"				1978.29
	Total				15166.90 Z
	Add Cess @ 1% on "Z"				151.67
	Cost of 10 metres				15318.57
	Cost of 1 metre				1531.86
	Say				1531.85

19.6.7 600 mm dia. R.C.C. pipe

Details of cost for 10 metre

MATERIAL

1706	R.C.C. pipes NP2 class 600 mm dia	metre	10.00	1100.00	11000.00
1720	R.C.C. collars NP2 class 600 mm dia 4 Nos.	each	4.00	140.00	560.00
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	0.10	3866.30	386.63
	Cement of 4 joints = 4x0.0054 =0.0216 cum = 0.032 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.032	4940.00	158.08
2209	Carriage of Cement	tonne	0.032	94.34	3.02
	Fine sand for 4 joints = 0.0108x4 = 0.048 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
983	Fine sand	cum	0.043	900.00	38.70
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.043	106.13	4.56
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.92	476.00	437.92
0024	Mason (brick layer) 2nd class	day	0.92	374.50	344.54
0017	Beldar	day	1.83	320.83	587.12
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				13626.45 W
	Add 1 % Water charges on "W"				136.26
	TOTAL				13762.71 X
	Add GST (multiplying factor 0.1405) on "X"				1933.66
	TOTAL				15696.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				2354.46
	Total				18050.83 Z
	Add Cess @ 1% on "Z"				180.51
	Cost of 10 metres				18231.33
	Cost of 1 metre				1823.13
	Say				1823.15
19.6.8	700 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1707	R.C.C. pipes NP2 class 700 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	1485.00	14850.00
1721	R.C.C. collars NP2 class 700 mm dia 4 Nos.	each	4.00	150.00	600.00
2303	Carriage of R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	0.10	3866.30	386.63
	Cement of 4 joints = 4x0.0062 = 0.0248 cum = 0.037 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.037	4940.00	182.78
2209	Carriage of Cement	tonne	0.037	94.34	3.49
	Fine sand for 4 joints = 0.0124x4 = 0.0496 cum = 0.05 cum				
983	Fine sand	cum	0.05	900.00	45.00
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts	cum	0.05	106.13	5.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.03	476.00	490.28
0024	Mason (brick layer) 2nd class	day	1.03	374.50	385.74
0017	Beldar	day	2.06	320.83	660.91
0011	Bhisti	day	0.42	320.83	134.75
	TOTAL				17744.88 W
	Add 1 % Water charges on "W"				177.45
	TOTAL				17922.33 X
	Add GST (multiplying factor 0.1405) on "X"				2518.09
	TOTAL				20440.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				3066.06
	Total				23506.48 Z
	Add Cess @ 1% on "Z"				235.06
	Cost of 10 metres				23741.54
	Cost of 1 metre				2374.15
	Say				2374.15

19.6.9 800 mm dia. R.C.C. pipe

Details of cost for 10 metre

MATERIAL

1709	R.C.C. pipes NP2 class 800 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	1800.00	18000.00
1723	R.C.C. collars NP2 class 800 mm dia 4 Nos.	each	4.00	200.00	800.00
2303	Carriage of R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	0.10	3866.30	386.63
	Cement of 4 joints = 4x0.0072 = 0.0288 cum = 0.042 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.042	4940.00	207.48
2209	Carriage of Cement	tonne	0.042	94.34	3.96
	Fine sand for 4 joints = 0.0143x4 = 0.0572 cum = 0.057 cum				
983	Fine sand	cum	0.057	900.00	51.30
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts	cum	0.057	106.13	6.05
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.14	476.00	542.64
0024	Mason (brick layer) 2nd class	day	1.14	374.50	426.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	2.28	320.83	731.49
0011	Bhisti	day	0.42	320.83	134.75
	TOTAL				21291.23 W
	Add 1 % Water charges on "W"				212.91
	TOTAL				21504.15 X
	Add GST (multiplying factor 0.1405) on "X"				3021.33
	TOTAL				24525.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				3678.82
	Total				28204.30 Z
	Add Cess @ 1% on "Z"				282.04
	Cost of 10 metres				28486.34
	Cost of 1 metre				2848.63
	Say				2848.65
19.6.10	900 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1710	R.C.C. pipes NP2 class 900 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	2500.00	25000.00
1724	R.C.C. collars NP2 class 900 mm dia 4 Nos.	each	4.00	235.00	940.00
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	0.10	5799.46	579.95
	Cement of 4 joints = 4x0.0082 = 0.0328 cum = 0.0488 t Say 0.049				
367	Portland Cement (OPC-43 grade)	tonne	0.049	4940.00	242.06
2209	Carriage of Cement	tonne	0.049	94.34	4.62
	Fine sand for 4 joints = 0.0164x4 = 0.066 cum				
983	Fine sand	cum	0.066	900.00	59.40
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.066	106.13	7.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.25	476.00	595.00
0024	Mason (brick layer) 2nd class	day	1.25	374.50	468.13
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				29019.06 W
	Add 1 % Water charges on "W"				290.19
	TOTAL				29309.25 X
	Add GST (multiplying factor 0.1405) on "X"				4117.95
	TOTAL				33427.20 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				5014.08
	Total				38441.28 Z
	Add Cess @ 1% on "Z"				384.41
	Cost of 10 metres				38825.70
	Cost of 1 metre				3882.57
	Say				3882.55
19.6.11	1000 mm dia. R.C.C. pipe				
	Details of cost for 10 metre				
	MATERIAL				
1711	R.C.C. pipes NP2 class 1000 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	2900.00	29000.00
1725	R.C.C. collars NP2 class 1000 mm dia 4 Nos.	each	4.00	280.00	1120.00
2332	Carriage of R.C.C. pipes 1000 mm dia	100	0.10	7732.61	773.26
	Cement of 4 joints = 4x0.0092 = 0.0368 cum = 0.055 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.055	4940.00	271.70
2209	Carriage of Cement	tonne	0.055	94.34	5.19
	Fine sand for 4 joints = 0.0185x4 = 0.074 cum				
983	Fine sand	cum	0.074	900.00	66.60
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.074	106.13	7.85
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.36	476.00	647.36
0024	Mason (brick layer) 2nd class	day	1.36	374.50	509.32
0017	Beldar	day	4.33	320.83	1389.19
0011	Bhisti	day	0.5	320.83	160.42
	TOTAL				33950.89 W
	Add 1 % Water charges on "W"				339.51
	TOTAL				34290.40 X
	Add GST (multiplying factor 0.1405) on "X"				4817.80
	TOTAL				39108.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				5866.23
	Total				44974.43 Z
	Add Cess @ 1% on "Z"				449.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost of 10 metres 45424.18

Cost of 1 metre 4542.42

Say 4542.40

19.6.12 1100 mm dia. R.C.C. pipe

Details of cost for 10 metre

MATERIAL

1712 R.C.C. pipes NP2 class 1100 mm dia (in 2.5 m. length = 4 Nos.) metre 10.00 3200.00 32000.00

1726 R.C.C. collars NP2 class 1100 mm dia 4 Nos. each 4.00 300.00 1200.00

2333 Carriage of R.C.C. pipes 1100 mm dia 100 0.10 7732.61 773.26
metre

Cement of 4 joints = 4×0.0103

= 0.0412 cum = 0.061 tonne

367 Portland Cement (OPC-43 grade) tonne 0.061 4940.00 301.34

2209 Carriage of Cement tonne 0.061 94.34 5.75

Fine sand for 4 joints = 0.0206×4

= 0.0824 cum = 0.082 cum

983 Fine sand cum 0.082 900.00 73.80

2261 Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) cum 0.082 106.13 8.70

LABOUR

0023 Mason (brick layer) 1st class day 1.47 476.00 699.72

0024 Mason (brick layer) 2nd class day 1.47 374.50 550.52

0017 Beldar day 6.30 320.83 2021.23

0011 Bhisti day 0.60 320.83 192.50

TOTAL 37826.82 W

Add 1 % Water charges on "W" 378.27

TOTAL 38205.09 X

Add GST (multiplying factor 0.1405) on "X" 5367.81

TOTAL 43572.90 Y

Add 15 % Contractor's profit and overheads on "Y" 6535.94

Total 50108.84 Z

Add Cess @ 1% on "Z" 501.09

Cost of 10 metres 50609.93

Cost of 1 metre 5060.99

Say 5061.00

19.6.13 1200 mm dia. R.C.C. pipe

Details of cost for 10 metre

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
1713	R.C.C. pipes NP2 class 1200 mm dia (in 2.5 m. length = 4 Nos.)	metre	10.00	3510.00	35100.00
1727	R.C.C. collars NP2 class 1200 mm dia 4 Nos.	each	4.00	350.00	1400.00
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	0.10	7732.61	773.26
	Cement of 4 joints = 4×0.0114 = 0.0456 cum = 0.068 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.068	4940.00	335.92
2209	Carriage of Cement	tonne	0.068	94.34	6.41
	Fine sand for 4 joints = 0.0229×4 = 0.0916 cum = 0.092 cum				
983	Fine sand	cum	0.092	900.00	82.80
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.092	106.13	9.76
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.59	476.00	756.84
0024	Mason (brick layer) 2nd class	day	1.59	374.50	595.46
0017	Beldar	day	8.67	320.83	2781.60
0011	Bhisti	day	0.67	320.83	214.96
	TOTAL				42057.01 W
	Add 1 % Water charges on "W"				420.57
	TOTAL				42477.58 X
	Add GST (multiplying factor 0.1405) on "X"				5968.10
	TOTAL				48445.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				7266.85
	Total				55712.53 Z
	Add Cess @ 1% on "Z"				557.13
	Cost of 10 metres				56269.65
	Cost of 1 metre				5626.97
	Say				5626.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for 1 manhole Cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) 1.51x1.41x0.20 m = 0.426 cum Say 0.43 cum				
4.1.8	Rate as per item no 4.1.8 of SH : Concrete Work Brick work with bricks of class designation 7.5 in foundation & plinth in cement mortar 1:4 (1 cement : 4 coarse sand) 4.32x0.23x0.35 m = 0.348 cum Less for pipe 2x3.14x(0.15m) ² x0.23m = (-) 0.008 cum Total = 0.340 cum	cum	0.43	4955.20	2130.74 A
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for benching 2x0.90x(0.80/2) x (0.30+0.20)/2 = 0.18 cum Less for pipe 1x0.90x3.14/4x(0.15m) ² = (-) 0.02 cum = 0.16 cum	cum	0.34	5528.25	1879.61 A
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 3.40mx0.05m = 0.17 sqm 2x½x0.80x0.10m = 0.08 sqm Total= 0.25 sqm	cum	0.16	5954.35	952.70 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) For slab : 1.36x1.26x0.15m = 0.257 cum Less for cover 0.61x0.455x0.15m	sqm	0.25	235.50	58.87 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= (-) 0.042 cum = 0.215 cum Say 0.22 cum				
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level	cum	0.22	7835.75	1723.86 A
0018	Coolie	day	-0.41	320.83	-131.54
	Mild steel reinforcement for slab : 0.22 cum @ 48.06 kg/cum = 10.57 kg				
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work Form work = 0.90x0.80 = 0.72 sqm Less cover = 0.61x0.455m = (-) 0.278 sqm = 0.442 sqm Say 0.44 sqm	kg	10.57	75.40	796.98 A
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work LABOUR	sqm	0.44	468.30	206.05 A
	Extra labour for making channel :				
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
1354	Rectangular cover 455x610 mm with frame (low duty) (inside)	each	1.00	1400.00	1400.00
9977	Carriage of C.I. cover & frame	L.S.	6.76	2.00	13.52
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				9122.38 W
	Add 1 % Water charges on "W-A"	1373.57			13.74
	TOTAL				9136.11 X
	Add (multiplying factor 0.1405) on "X-A"	1387.31			194.92
	TOTAL				9331.03 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1582.22			237.33
	Total				9568.36 Z
	Add Cess @ 1% on "Z-A"	1819.56			18.20
	Cost of each				9586.56
	Say				9586.55

19.7.1.2 With Sewer bricks conforming to IS : 4885

Details of cost for 1 manhole Cement concrete 1:4:8
(1 cement : 4 coarse sand : 8 graded stone
aggregate 40 mm nominal size)
1.51x1.41x0.20 m = 0.426 cum Say 0.43 cum

4.1.8	Rate as per item no 4.1.8 of SH : Concrete Work Brick work with sewer bricks conforming to IS:4885 in cement mortar 1:4 (1 cement :4 coarse sand) 4.32x0.23x0.35 m = 0.348 cum	cum	0.43	4955.20	2130.74 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Less for pipe $2 \times 3.14 \times (0.15\text{m})^2 \times 0.23\text{m}$ = (-) 0.008 cum Total= 0.340 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for benching $2 \times 0.90 \times (0.80/2) \times (0.30 + 0.20)/2 = 0.18 \text{ cum}$ Less for pipe $1 \times 0.90 \times 3.14/4 \times (0.15\text{m})^2$ = (-) 0.02 cum Total= 0.16 cum	cum	0.34	5715.20	1943.17 A
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.40 \text{m} \times 0.05\text{m} = 0.17 \text{ sqm}$ $2 \times \frac{1}{2} \times 0.80 \times 0.10\text{m} = 0.08 \text{ sqm}$ Total= 0.25 sqm	cum	0.16	5954.35	952.70 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) For slab : $1.36 \times 1.26 \times 0.15\text{m} = 0.257 \text{ cum}$ Less for cover $0.61 \times 0.455 \times 0.15\text{m}$ = (-) 0.042 cum = 0.215 cum Say 0.22 cum	sqm	0.25	235.50	58.87 A
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level	cum	0.22	7835.75	1723.86 A
0018	Coolie Mild steel reinforcement for slab : 0.22 cum @ 48.06 kg/cum = 10.57 kg	day	-0.41	320.83	-131.54
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work Form work = $0.90 \times 0.80 = 0.72 \text{ sqm}$ = 0.442 sqm Say 0.44 sqm Less cover = $0.61 \times 0.455\text{m} = (-) 0.278 \text{ sqm}$	kg	10.57	75.40	797.02 A
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work LABOUR Extra labour for making channel :	sqm	0.44	468.30	206.05 A
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class	day	0.06	374.50	22.47
1354	Rectangular cover 455x610 mm with frame (low duty) (inside)	each	1.00	1400.00	1400.00
9977	Carriage of C.I. cover & frame	L.S.	6.76	2.00	13.52
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				9185.98
	Add 1 % Water charges on "W-A"		1373.57		13.74
	TOTAL				9199.72 X
	Add GST (multiplying factor 0.1405) on "X-A"		1387.31		194.92
	TOTAL				9394.64 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1582.22		237.33
	Total				9631.97 Z
	Add Cess @ 1% on "Z-A"		1819.56		18.20
	Cost of each				9650.16
	Say				9650.15

19.7.2 Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :

19.7.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:4:8 (1 cement : 4 coarse sand :
8 graded stone aggregate 40 mm nominal size)

1.81x1.51x0.20 m = 0.547 cum Say 0.55 cum

4.1.8 Rate as per item no 4.1.8 of SH : Concrete Work cum 0.55 4955.20 2725.36 A

Brick work with bricks of class designation
7.5 in foundation & plinth in cement mortar

1:4 (1 cement : 4 coarse sand)

5.12x0.23x0.80 m = 0.942 cum

Less for pipe $2 \times 3.14 \times (0.15\text{m})^2 \times 0.23\text{m} =$
(-) 0.008 cum

Total= 0.934 cum Say 0.93 cum

6.1.1 Rate as per item no 6.1.1 of SH : Brick Work cum 0.93 5528.25 5141.28 A

Cement concrete 1:2:4 (1 cement : 2 coarse sand :
4 graded stone aggregate 20 mm nominal size) for
benching

$2 \times 1.20 \times (0.90/2) \times (0.30+0.20)/2 = 2.70$ cum

Less for pipe $1.20 \times 3.14/4 \times (0.15\text{m})^2$
= (-) 0.021 cum

Total= 0.249 cum say 0.25

4.1.3 Rate as per item no. 4.1.3 of SH : Concrete Work cum 0.25 5954.35 1488.59 A

12 mm cement plaster 1:3 (1 cement : 3
coarse sand) finished with floating coat of neat
cement

$4.20 \times 0.50\text{m} = 2.10$ sqm

$2 \times \frac{1}{2} \times 0.90 \times 0.10\text{m}$
= 2.19 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) For slab : 1.66x1.36x0.15m = 0.339 cum Less for cover 0.7854x(0.50) ² x0.15m = (-) 0.029 cum = 0.31 cum	sqm	2.19	235.50	515.74 A
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level	cum	0.31	7835.75	2429.08 A
0018	Coolie Mild steel reinforcement for slab : 0.31 cum @ 80.09 kg/cum = 24.83 kg	day	-0.58	320.83	-186.08
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work Form work = 1.20x0.90 = 1.08 sqm Less cover = 3.14/4x(0.50) ² = (-) 0.196 sqm = 0.884 sqm Say 0.88 sqm	kg	24.83	75.40	1872.18 A
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work LABOUR Extra labour for making channel :	sqm	0.88	468.30	412.11 A
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
1356	500 mm dia cover with frame (medium duty)	each	1.00	4400.00	4400.00
9977	Carriage of C.I. cover & frame	L.S.	6.76	2.00	13.52
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	16.64	2.00	33.28
	TOTAL				18926.61 W
	Add 1 % Water charges on "W-A"	4342.28			43.42
	TOTAL				18970.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	4385.70			616.19
	TOTAL				19586.22 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5001.89			750.28
	Total				20336.51 Z
	Add Cess @ 1% on "Z-A"	5752.18			57.52
	Cost of each				20394.03
	Say				20394.05

19.7.2.2 With Sewer bricks conforming to IS : 4885

Details of cost for 1 manhole

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) 1.81x1.51x0.20 m = 0.547 cum Say 0.55 cum				
4.1.8	Rate as per item no 4.1.8 of SH : Concrete Work	cum	0.55	4955.20	2725.36 A
	Brick work with modular extruded burnt fly ash clay sewer bricks (Confirming to IS 4285) 1:4 (1 cement : 4 coarse sand) 5.12x0.23x0.80 m = 0.942 cum Less for pipe 2x3.14x(0.15m) ² x0.23m = (-) 0.008 cum = 0.934 cum Say 0.93 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	0.93	5715.20	5315.14 A
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for benching 2x1.20x(0.90/2) x (0.30+0.20)/2 = 2.70 cum Less for pipe 1.20x3.14/4x(0.15m) ² = (-) 0.021 cum = 0.249 cum say 0.25				
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.25	5954.35	1488.59 A
	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 4.20mx0.50m = 2.10 sqm 2x1/2x0.90x0.10m = 0.09sqm = 2.19 sqm	sqm	2.19	235.50	515.74 A
	Rate as per item no 13.9.1 of SH : Finishing				
13.9.1	Reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	0.31	7835.75	2429.08 A
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level				
	For slab : 1.66x1.36x0.15m = 0.339 cum Less for cover 0.7854x(0.50) ² x0.15m = (-) 0.029 cum = 0.31 cum				
0018	Coolie	day	-0.58	320.83	-186.08
	Mild steel reinforcement for slab : 0.31 cum @ 80.09 kg/cum = 24.83 kg				
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	24.83	75.40	1872.18 A
	Form work = 1.20x0.90 = 1.08 sqm Less cover = 3.14/4x(0.50) ² = (-) 0.196 sqm = 0.884 sqm Say 0.88 sqm				
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work	sqm	0.88	468.30	412.11 A
	LABOUR				
	Extra labour for making channel :				
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1356	500 mm dia cover with frame (medium duty)	each	1.00	4400.00	4400.00
9977	Carriage of C.I. cover & frame	L.S.	6.76	2.00	13.52
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	16.64	2.00	33.28
	TOTAL				19100.47 W
	Add 1 % Water charges on "W-A"		4342.28		43.42
	TOTAL				19143.89 X
	Add GST (multiplying factor 0.1405) on "X-A"		4385.70		616.19
	TOTAL				19760.09 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		5001.89		750.28
	Total				20510.37 Z
	Add Cess @ 1% on "Z-A"		5752.18		57.52
	Cost of each				20567.89
	Say				20567.90

19.7.3 Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :

19.7.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for 1 manhole

MATERIAL

1.81x1.51x0.20 m = 0.547 cum Say 0.55 cum

4.1.8 Rate as per item no 4.1.8 of SH : Concrete Work cum 0.55 4955.20 2725.36 A

Brick work with bricks of class designation

75 in foundation & plinth in cement mortar

1:4 (1 cement : 4 coarse sand)

5.12x0.23x0.65 m = 0.765 cum

1x0.56x0.23x0.15 m = 0.019 cum

1x0.79x0.23x0.15 = 0.027 cum

= 0.811 cum

Less for pipe $2 \times 3.14 \times (0.15\text{m})^2 \times 0.23\text{m}$

= (-) 0.008 cum

= 0.803 cum Say 0.80 cum

6.1.1 Rate as per item no 6.1.1 of SH : Brick Work cum 0.8 5528.25 4422.60 A

Cement concrete 1:2:4 (1 cement : 2 coarse sand :

4 graded stone aggregate

20 mm nominal size) for benching

$2 \times 1.20 \times (0.90/2) \times (0.30 + 0.20)/2 = 0.27 \text{ cum}$

Less for pipe $1.20 \times 3.14/4 \times (0.15\text{m})^2 =$

(-) 0.021 cum

= 0.249 cum say 0.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 4.20mx0.35m = 1.47 sqm 2x0.56x0.15 m = 0.17 sqm 2x½x0.90x0.10m = 0.09 sqm For fixing cover 0.96x0.96 m =0.922 sqm = 2.652 sqm Less cover $3.14/4 \times (0.56)^2 = (-) 0.246$ sqm = 2.406 sqm Say 2.41 sqm	cum	0.25	5954.35	1488.59 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) For slab : 1.66x1.36x0.15m = 0.339 cum Add extra concreting $1 \times (0.56+0.79) \times$ 0.15x0.15 m = 0.03 cum Total= 0.369 cum Less for cover $0.7854 \times (0.56)^2 \times 0.15m$ = (-) 0.037 cum = 0.332 cum Say 0.33 cum	sqm	2.41	235.50	567.55 A
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level	cum	0.33	7835.75	2585.80 A
0018	Coolie Steel reinforcement for slab @ 80.09 Kg/cum For 0.33 cum = 26.43 kg.	day	-0.62	320.83	-198.91
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work Form work inside area of man-hole 1.20x0.90 = 1.08 sqm Less cover = $3.14/4 \times (0.56)^2 = (-) 0.246$ sqm = 0.834 sqm Say 0.83 sqm	kg	26.43	75.40	1992.82 A
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work LABOUR Extra labour for making channel :	sqm	0.83	468.30	388.69 A
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
3860	560 mm dia cover with frame (Heavy duty)	each	1.00	9000.00	9000.00
9977	Carriage of C.I. cover & frame	L.S.	13.52	2.00	27.04
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	20.28	2.00	40.56
	TOTAL				23121.65 W
	Add 1 % Water charges on "W-A"	8950.25			89.50
	TOTAL				23211.16 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"		9039.75		1270.08
	TOTAL				24481.24 Y
	Add 15 % Contractor's profit and overheads on "Y- ^"	10309.83		1546.47	
	Total				26027.71 Z
	Add Cess @ 1% on "Z-A"	11856.31		118.56	
	Cost of each				26146.28
	Say				26146.30

19.7.3.2 With Sewer bricks conforming to IS : 4885

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:4:8 (1 cement : 4 coarse sand :
8 graded stone aggregate 40 mm nominal size)

1.81x1.51x0.20 m = 0.547 cum Say 0.55 cum

4.1.8 Rate as per item no 4.1.8 of SH : Concrete Work cum 0.55 4955.20 2725.36 A

sewer bricks conforming to IS:4885 in cement
mortar 1:4 (1 cement :4 coarse sand)

5.12x0.23x0.65 m = 0.765 cum

1x0.56x0.23x0.15 m = 0.019 cum

1x0.79x0.23x0.15 = 0.027 cum

Total= 0.811 cum

Less for pipe $2 \times 3.14 \times (0.15\text{m})^2 \times 0.23\text{m}$

= (-) 0.008 cum

= 0.803 cum Say 0.80 cum

6.36.1 Rate as per item No 6.36.1 of SH : Brick Work cum 0.80 5715.20 4572.16 A

Cement concrete 1:2:4 (1 cement :

2 coarse sand : 4 graded stone aggregate

20 mm nominal size) for benching

$2 \times 1.20 \times (0.90/2) \times (0.30 + 0.20)/2 = 0.27 \text{ cum}$

Less for pipe $1.20 \times 3.14/4 \times (0.15\text{m})^2$

= (-) 0.021 cum

= 0.249 cum say 0.25

4.1.3 Rate as per item no. 4.1.3 of SH : Concrete Work cum 0.25 5954.35 1488.59 A

12 mm cement plaster 1:3 (1 cement : 3

coarse sand) finished with floating coat of neat
cement

$4.20 \text{m} \times 0.35 \text{m} = 1.47 \text{ sqm}$

$2 \times 0.56 \times 0.15 \text{m} = 0.17 \text{ sqm}$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x½x0.90x0.10m = 0.09 sqm For fixing cover 0.96x0.96 m =0.922 sqm Total= 2.652 sqm Less cover $3.14/4 \times (0.56)^2 = (-) 0.246$ sqm = 2.406 sqm Say 2.41 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For slab : 1.66x1.36x0.15m = 0.339 cum Add extra concreting $1 \times (0.56+0.79) \times 0.15 \times 0.15$ m = 0.03 cum = 0.369 cum Less for cover $0.7854 \times (0.56)^2 \times 0.15$ m = (-) 0.037 cum = 0.332 cum Say 0.33 cum	sqm	2.41	235.50	567.55 A
5.3	Rate as per item no 5.3 of SH : RCC Work Less labour for not lifting the materilas upto floor five level	cum	0.33	7835.75	2585.80 A
0018	Coolie Steel reinforcement for slab @ 80.09 Kg/cum For 0.33 cum = 26.43 kg	day	-0.62	320.83	-198.91
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work Form work inside area of man-hole $1.20 \times 0.90 = 1.08$ sqm Less cover = $3.14/4 \times (0.56)^2 = (-) 0.246$ sqm = 0.834 sqm Say 0.83 sqm	kg	26.43	75.40	1992.82 A
5.9.3	Rate as per item no 5.9.3 of SH : RCC Work LABOUR Extra labour for making channel :	sqm	0.83	468.30	388.69 A
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
3860	560 mm dia cover with frame (Heavy duty)	each	1.00	9000.00	9000.00
9977	Carriage of C.I. cover & frame	L.S.	13.52	2.00	27.04
9999	Painting of C.I. cover & frame with coal tar	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	20.28	2.00	40.56
	TOTAL				23271.21 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"	8950.25			89.50
	TOTAL				23360.71 X
	Add GST (multiplying factor 0.1405) on "X-A"	9039.75			1270.08
	TOTAL				24630.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	10309.83			1546.47
	Total				26177.27 Z
	Add Cess @ 1% on "Z-A"	11856.31			118.56
	Cost of each				26295.84
	Say				26295.85

19.8 Extra for depth for manholes :

19.8.1 Size 90x80 cm

19.8.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for one meter

MATERIAL

Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand)

4.32x0.23x1.0 m = 0.994 cum Say 0.99 cum

6.1.1	Rate as per item no. 6.1.1 of S.H : brick work	cum	0.99	5528.25	5472.97

12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement

3.40x1 m = 3.40 sqm

13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	3.40	235.50	800.69

TOTAL					6273.66

Cost for one metre					6273.66

Say					6273.65

19.8.1.2 With Sewer bricks conforming to IS : 4885

Details of cost for one meter

MATERIAL

Brick work with modular extruded burnt fly ash clay sewer bricks conforming to IS : 4885 in cement mortar 1:4 (1 cement : 4 coarse sand)

4.32x0.23x1.0 m = 0.994 cum Say 0.99 cum

6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	0.99	5715.20	5658.05

12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement

3.40x1 m = 3.40 sqm

13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	3.40	235.50	800.69

TOTAL					6458.74

Cost for one metre					6458.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				6458.75
19.8.2	Size 120x90 cm				
19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one meter				
	MATERIAL				
	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand)				
	5.12x0.23x1.0 m = 1.178 cum Say 1.18 cum				
6.1.1	Rate as per item no. 6.1.1 of S.H : brick work (coarse sand) finished with floating coat of neat cement	cum	1.18	5528.25	6523.34
	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) 4.20x1 m = 4.20 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	4.20	235.50	989.09
	TOTAL				7512.43
	Cost for one metre				7512.43
	Say				7512.45
19.8.2.2	With Sewer bricks conforming to IS : 4885				
	Details of cost for one meter				
	MATERIAL				
	Brick work with modular extruded burnt fly ash clay sewer bricks conforming to IS :4885 in cement mortar 1:4 (1 cement : 4 coarse sand)				
	5.12x0.23x1.0 m = 1.178 cum Say 1.18 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work (12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement)	cum	1.18	5715.20	6743.94
	4.20x1 m = 4.20 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	4.20	235.50	989.09
	TOTAL				7733.03
	Cost for one metre				7733.03
	Say				7733.05
19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :				
19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for 1 manhole				
	MATERIAL				
	Cement concrete 1:3:6 (1 cement :				
	3 coarse sand : 6 graded stone aggregate				
	40 mm nominal size)				
	1.67x1.67x0.225 m = 0.63 cum				
4.1.6	Rate as per item no 4.1.6 of SH : Concrete Work	cum	0.63	5291.95	3333.93 A
	Brick work with bricks of class designation 7.5 in				
	cement mortar 1:4 (1 cement :				
	4 coarse sand)				
	Curved on plan				
	3.14x1.14x0.074x0.23 = 0.061				
	3.14x(1.14+0.79)/2x0.711x0.23 = 0.496				
	Total= 0.557				
	Duduct arch ring and portion of pipe				
	2x½x3.14x0.25mx0.230x0.10 m = 0.018 cum				
	2x3.14/4x(0.15)²x0.230 = 0.008 cum				
	Total= 0.026 cum				
	Net quantity 0.557-0.026 = 0.531 Say 0.53				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.53	5528.25	2929.97 A
	Brick work in Archis with 7.5 class designation brick				
	in cement mortar 1:3 (1 cement : 3 fine sand)				
	2x½x3.14x0.25 m x0.230x0.10 m				
	= 0.018 cum Say 0.02 cum				
6.9	Rate as per item no 6.9 of SH : Brick Work Cement	cum	0.02	9550.20	191.00 A
	concrete 1:2:4(1 cement : 2 coarse sand : 4 graded				
	stone aggregate 20 mm nominal size)				
	Cement concrete 1:2:4(1 cement : 2 coarse sand : 4				
	graded stone aggregate 20 mm nominal size) For				
	benching :				
	3.14/4x(0.91+0.82)²x0.20 = 0.118 cum				
	[(2x8.133)/360]x(4/3)x3.14x(0.45)³				
	=0.017 cum				
	Total = 0.135 cum				
	Less pipe : 0.91x3.14/4x(0.15)²²				
	= (-) 0.016 cum				
	= 0.119 cum Say 0.12 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Work	cum	0.12	5954.35	714.52 A
	Cement concrete 1:2:4 (1 cement :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : $3.14/4 \times d^2 \times \text{thickness}$ $3.14/4 \times (1.020)^2 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14/4 \times (0.28)^2 \times 0.15 \text{ m}$ $= (-) 0.037 \text{ cum}$ Total = 0.086 cum Say 0.09 cum				
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.14 \times (0.80 + 0.56) / 2 \times 0.49 = 1.05 \text{ sqm}$ $3.14 \times 0.56 \times 0.075 = 0.13 \text{ sqm}$ Benching $3.14 \times (0.80)^2 / 4 - 0.80 \times 0.15 + 0.80 \times \frac{1}{2} \times 3.14 \times 0.15 = 0.57 \text{ sqm}$ Total = 1.75 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	1.75	235.50	412.12 A
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class S.F.R.C cover	day	0.06	374.50	22.47
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.9	2.00	33.80
	TOTAL				9199.80 W
	Add 1 % Water charges on "W-A"		978.61		9.79
	TOTAL				9209.58 X
	Add GST (multiplying factor 0.1405) on "X-A"		988.40		138.87
	TOTAL				9348.45 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1127.27		169.09
	Total				9517.54 Z
	Add Cess @ 1% on "Z-A"		1296.36		12.96
	Cost of one manhole				9530.51
	Say				9530.50

19.9.1.2 With Sewer bricks conforming to IS : 4885

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:3:6 (1 cement :

3 coarse sand : 6 graded stone aggregate
40 mm nominal size)

$1.67 \times 1.67 \times 0.225 \text{ m} = 0.63 \text{ cum}$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.6	Rate as per item no 4.1.6 of SH : Concrete Work Brick work with bricks with modular extruded brunt ash clay sewer bricks (Confirming to IS 4885) cement mortar 1:4 (1 cement : 4 coarse sand) Curved on plan $3.14 \times 1.14 \times 0.074 \times 0.23 = 0.061$ $3.14 \times (1.14 + 0.79) / 2 \times 0.711 \times 0.23 = 0.496$ $= 0.557$ Duduct arch ring and portion of pipe $2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.230 \times 0.10 \text{ m} = 0.018 \text{ cum}$ $2 \times 3.14 / 4 \times (0.15)^2 \times 0.230 = 0.008 \text{ cum}$ Total= 0.026 cum Net quantity 0.557-0.026 = 0.531 Say 0.53	cum	0.63	5291.95	3333.93 A
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work Brick work in arches with modular extruded brunt fly ash clay sewer bricks conforming to IS : 4885 in cement mortar 1:3 (1 cement : 3 fine sand) $2 \times \frac{1}{2} \times 3.14 \times 0.25 \text{ m} \times 0.230 \times 0.10 \text{ m}$ $= 0.018 \text{ cum}$ Say 0.02 cum	cum	0.53	5715.20	3029.06 A
6.37	Rate as per item No 6.37 of SH : Brick Work Cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For benching : $3.14 / 4 \times (0.91 + 0.82)^2 \times 0.20 = 0.118 \text{ cum}$ $[(2 \times 8.133) / 360] \times (4/3) \times 3.14 \times (0.45)^3 = 0.017 \text{ cum}$ Total= 0.135 cum Less pipe : $0.91 \times 3.14 / 4 \times (0.15)^2$ $= (-) 0.016 \text{ cum}$ Total= 0.119 cum Say 0.12 cum	cum	0.02	9085.50	181.71 A
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : $3.14 / 4 \times d^2 \times \text{thickness}$ $3.14 / 4 \times (1.020)^2 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14 / 4 \times (0.28)^2 \times 0.15 \text{ m}$ $= (-) 0.037 \text{ cum}$ Total = 0.086 cum Say 0.09 cum	cum	0.12	5954.35	714.52 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.14 \times (0.80 + 0.56) / 2 \times 0.49 = 1.05 \text{ sqm}$ $3.14 \times 0.56 \times 0.075 = 0.13 \text{ sqm}$ Benching $3.14 \times (0.80)^2 / 4 - 0.80 \times 0.15 + 0.80 \times \frac{1}{2} \times 3.14 \times 0.15 = 0.57 \text{ sqm}$ Total= 1.75 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	1.75	235.50	412.12 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.06	476.00	28.56
0024	Mason (brick layer) 2nd class S.F.R.C cover	day	0.06	374.50	22.47
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.9	2.00	33.80
	TOTAL				9289.59 W
	Add 1 % Water charges on "W-A"		978.61		9.79
	TOTAL				9299.37 X
	Add GST (multiplying factor 0.1405) on "X-A"		988.40		138.87
	TOTAL				9438.24 Y
	Add 15 % Contractor's profit and overheads on "Y- A"		1127.27		169.09
	Total				9607.33 Z
	Add Cess @ 1% on "Z-A"		1296.36		12.96
	Cost of one manhole				9620.30
	Say				9620.30
19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				
19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Detail of cost of 0.76 m depth				
	Brick work in foundation with 75 class designation bricks in cement mortar 1:4 (1 cement : 4 coarse sand)				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.63	5528.25	3482.80
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone 20mm nominal size)				
4.1.3	Rate as per item no 4.1.3 of SH : Concrete Work	cum	0.01	5954.35	59.54
	12mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with neat cement.				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	2.33	235.50	548.71
	Cost for 0.76 metre				4091.05
	Cost for 1.00 metre				5382.96
	Say				5382.95
19.10.2	With Sewer bricks conforming IS : 4885				
	Detail of cost of 0.76 m extra depth Brick work with modular extruded burnt fire clay sewer bricks (confirming to IS 4885) in cement mortar 1:4 (1 cement : 4 coarse sand)				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	0.63	5715.20	3600.58

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone 20mm nominal size) Rate as per item no 4.1.3 of SH : Concrete Work	cum	0.01	5954.35	59.54
13.9.1	12mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement. Rate as per item no 13.9.1 of SH : Finishing	sqm	2.33	235.50	548.71
	Cost for 0.76 metre				4208.83
	Cost for 1.00 metre				5537.93
	Say				5537.95
19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :				
19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for 1 manhole				
	MATERIAL				
	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) 1.98x1.98x0.30 m = 1.178 cum Say 1.18 cum				
4.1.6	Rate as per item no 4.1.6 of SH : Concrete Work	cum	1.18	5291.95	6244.50 A
	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) Curved on plan $3.14 \times 1.45 \times 0.24 \times 0.23 = 0.251$ $3.14 \times (1.45 + 0.79) / 2 \times 1.32 \times 0.23 = 1.069$ Total = 1.320 Duduct arch ring and portion of pipe $2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.23 \times 0.10 = 0.018$ cum $2 \times 3.14 / 4 \times (0.15)^2 \times 0.230 = 0.008$ cum Total = 0.026 cum Net quantity 1.320 - 0.026 = 1.294 Say 1.29 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Brick work in arches with 75 class designation brick in cement mortar 1:3 (1 cement : 3 fine sand) 2x½x3.14x0.25 m x0.230x0.10 m = 0.018 cum Say 0.02 cum	cum	1.29	5528.25	7131.45 A
6.9	Rate as per item no 6.9 of SH : Brick Work Cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For benching : 3.14/4x(1.22)²x0.20 = 0.234 cum [(2x8.133)/360]x(4/3)x3.14x(0.61)³ =0.043 cum Total= 0.277 cum Less pipe :1.22x3.14/4x(0.15)²(-) = 0.0216 cum Total= 0.2554 cum Say 0.26 cum	cum	0.02	9550.20	191.00 A
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : 3.14/4 x d² x thickness 3.14/4x(1.020)²x0.15 m =0.123 cum Less cover 3.14/4x(0.28)² x 0.15 m : (-) = 0.037 cum Total= 0.086 cum Say 0.09 cum	cum	0.26	5954.35	1548.13 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 3.14x(1.136+0.56)/2x1.216 = 3.241 sqm 3.14x0.56x0.075 = 0.13 sqm 3.14x(1.136)²/4-1.136x1/2x3.14x0.15 = 1.112 sqm Total= 4.483 sqm Say 4.48 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	4.48	235.50	1055.03 A
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0024	Mason (brick layer) 2nd class	day	0.10	374.50	37.45
7135	S.F.R.C manhole cover Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.9	2.00	33.80
	TOTAL				17822.38
	Add 1 % Water charges on "W-A"	1012.63			10.13
	TOTAL				17832.51 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X-A"	1022.76			143.70
	TOTAL				17976.20 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1166.45			174.97
	Total				18151.17 Z
	Add Cess @ 1% on "Z-A"	1341.42			13.41
	Cost of one manhole				18164.59
	Say				18164.60

19.11.1.2 With Sewer bricks conforming IS : 4885

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:3:6 (1 cement :

3 coarse sand : 6 graded stone aggregate
40 mm nominal size)

1.98x1.98x0.30 m = 1.178 cum Say 1.18 cum

4.1.6 Rate as per item no 4.1.6 of SH : Concrete Work cum 1.18 5291.95 6244.50 A

Brick work with modular extruded brunt fly ash clay
sewer bricks in cement mortar 1:4
(1 cement : 4 coarse sand)

Curved on plan

$3.14 \times 1.45 \times 0.24 \times 0.23 = 0.251$

$3.14 \times (1.45 + 0.79) / 2 \times 1.32 \times 0.23 = 1.069$

Total = 1.320

Duduct arch ring and portion of pipe

$2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.230 \times 0.10 \text{ m}$

= 0.018 cum

$2 \times 3.14 / 4 \times (0.15)^2 \times 0.230 = 0.008 \text{ cum}$

Total= 0.026 cum

Net quantity 1.320-0.026 = 1.294

Say 1.29 cum

6.36.1 Rate as per item No 6.36.1 of SH : Brick Work cum 1.29 5715.20 7372.61 A

Brick work in arches with modular extruded brunt fly
ash clay sewer bricks in cement
mortar 1:3 (1 cement : 3 fine sand)

$2 \times \frac{1}{2} \times 3.14 \times 0.25 \text{ m} \times 0.230 \times 0.10 \text{ m}$

= 0.018 cum Say 0.02 cum

6.37 Rate as per item No 6.37 of SH : Brick Work cum 0.02 9085.50 181.71 A

Cement concrete 1:2:4(1 cement : 2 coarse sand : 4
graded stone aggregate 20 mm nominal size)

For benching :

$3.14 / 4 \times (1.22)^2 \times 0.20 = 0.234 \text{ cum}$

$[(2 \times 8.133) / 360] \times (4/3) \times 3.14 \times (0.61)^3$

= 0.043 cum

Total= 0.277 cum

Less pipe : $1.22 \times 3.14 / 4 \times (0.15)^2 (-)$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.0216 cum Total= 0.2554 cum Say 0.26 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : $3.14/4 \times d^2 \times \text{thickness}$ $3.14/4(1.020)^2 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14/4 \times (0.28)^2 \times 0.15 \text{ m} : (-)$ = 0.037 cum Total= 0.086 cum Say 0.09 cum	cum	0.26	5954.35	1548.13 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.14 \times (1.136 + 0.56) / 2 \times 1.216 = 3.241 \text{ sqm}$ $3.14 \times 0.56 \times 0.075 = 0.13 \text{ sqm}$ $3.14 \times (1.136)^2 / 4 - 1.136 \times 1/2 \times 3.14 \times 0.15$ = 1.112 sqm Total= 4.483 sqm Say 4.48 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	4.48	235.50	1055.03 A
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0024	Mason (brick layer) 2nd class	day	0.10	374.50	37.45
7135	S.F.R.C manhole cover and frame Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.9	2.00	33.80
	TOTAL				18054.25 W
	Add 1 % Water charges on "W-A"	1012.63			10.13
	TOTAL				18064.38 X
	Add GST (multiplying factor 0.1405) on "X-A"	1022.76			143.70
	TOTAL				18208.07 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1166.45			174.97
	Total				18383.04 Z
	Add Cess @ 1% on "Z-A"	1341.42			13.41
	Cost of one manhole				18396.46
	Say				18396.45
19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :				
19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Detail of cost of 0.61 m extra depth				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.1.1	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) Rate as per item no 6.1.1 of SH : Brick Work	cum	0.66	5528.25	3648.65
13.9.1	12mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement. Rate as per item no 13.9.1 of SH : Finishing	sqm	2.56	235.50	602.87
	Cost for 0.61 metre				4251.52
	Cost for 1.00 metre				6969.70
	Say				6969.70

19.12.2 With Sewer bricks conforming IS : 4885

Detail of cost of 0.61 m extra depth Brick work with modular burnt ash clay sewer bricks extruded burnt fire clay bricks (Confirming to IS 4885) in cement mortar 1:4 (1 cement : 4 coarse sand)

6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	0.66	5715.20	3772.03
	12mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement.				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	2.56	235.50	602.88
	Cost for 0.61 metre				4374.91
	Cost for 1.00 metre				7171.99
	Say				7172.00

19.13 Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :

19.13.1 2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :

19.13.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)
2.74x2.74x0.30 m = 2.25 cum

4.1.6	Rate as per item no 4.1.6 of SH : Concrete Work	cum	2.25	5291.95	11906.89 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 Curved on plan $3.14 \times 1.98 \times 0.25 \times 0.46 = 0.716 \text{ cum}$ $3.14 \times (1.98 + 0.905) / 2 \times 0.345 \times 1.93 = 3.019 \text{ cum}$ Total = 3.735 cum Duduct arch ring and portion of pipe $2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.46 \times 0.10 \text{ m} = 0.036 \text{ cum}$ $2 \times 3.14 / 4 \times (0.15)^2 \times 0.460 = 0.016 \text{ cum}$ Total = 0.052 cum Net quantity $3.735 - 0.052 = 3.683 \text{ cum}$ Say 3.68 cum				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Brick work in arches with 7.5 class designation brick in cement mortar 1:3 (1 cement : 3 fine sand) $2 \times \frac{1}{2} \times 3.14 \times 0.25 \text{ m} \times 0.460 \times 0.10 \text{ m}$ $= 0.036 \text{ cum}$ Say 0.04 cum	cum	3.68	5528.25	20343.96 A
6.9	Rate as per item no 6.9 of SH : Brick Work Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For benching : $3.14 / 4 \times (1.52)^2 \times 0.20 = 0.363 \text{ cum}$ $[(2 \times 8.133) / 360] \times (4/3) \times 3.14 \times (0.76)^3 = 0.083 \text{ cum}$ Total = 0.446 cum Less pipe : $1.52 \times 3.14 / 4 \times (0.15)^2 \times (-) = 0.027 \text{ cum}$ Total = 0.419 cum Say 0.42 cum	cum	0.04	9550.20	382.01 A
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : $3.14 / 4 \times d^2 \times \text{thickness}$ $3.14 / 4 \times (1.020)^2 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14 / 4 \times (0.28)^2 \times 0.15 \text{ m} : (-)$ $= 0.037 \text{ cum}$ Total = 0.086 cum Say 0.09 cum	cum	0.42	5954.35	2500.83 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.14 \times (1.454 + 0.56) / 2 \times 1.799 = 5.694 \text{ sqm}$ $3.14 \times 0.56 \times 0.075 = 0.13 \text{ sqm}$ Benching $3.14 \times (1.454)^2 / 4 - 1.454 \times 0.15 + 1.454 \times 1/2 \times$ $3.14 \times 0.15 = 1.786 \text{ sqm}$ Total = 7.61 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	7.61	235.50	1792.13 A
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0024	Mason (brick layer) 2nd class S.F.R.C cover	day	0.10	374.50	37.45
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.90	2.00	33.80
	TOTAL				38578.08 W
	Add 1 % Water charges on "W-A"	1012.63			10.13
	TOTAL				38588.21 X
	Add GST (multiplying factor 0.1405) on "X-A"	1022.76			143.70
	TOTAL				38731.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1166.45			174.97
	Total				38906.87 Z
	Add Cess @ 1% on "Z-A"	1341.42			13.41
	Cost of one manhole				38920.29
	Say				38920.30

19.13.1.2 With Sewer bricks conforming IS : 4885

Details of cost for 1 manhole

MATERIAL

Cement concrete 1:3:6 (1 cement : 3 coarse sand :
6 graded stone aggregate 40 mm nominal size)
2.74x2.74x0.30 m = 2.25 cum

4.1.6	Rate as per item no 4.1.6 of SH : Concrete Work	cum	2.25	5291.95	11906.89 A
	Brick work with bricks modular extruded brunt fly ash clay sewer bricks in cement mortar 1:4 (1 cement : 4 coarse sand) Curved on plan 3.14x1.98x0.25x0.46 = 0.716 cum 3.14x(1.98+0.905)/2x0.345x1.93 = 3.019 cum Total= 3.735 cum Duduct arch ring and portion of pipe 2x1/2x3.14x0.25mx0.46x0.10 m = 0.036 cum 2x3.14/4x(0.15) ² x0.460 = 0.016 cum Total= 0.052 cum Net quantity 3.735-0.052 = 3.683 cum Say 3.68 cum				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work	cum	3.68	5715.20	21031.94 A
	Brick work in arches with modular extruded brunt fly ash clay sewer bricks in cement mortar 1:3 (1 cement : 3 fine sand) 2x1/2x3.14x0.25 m x0.460x0.10 m = 0.036 cum Say 0.04 cum				
6.37	Rate as per item No 6.37 of SH : Brick Work	cum	0.04	9085.50	363.42 A
	Cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For benching : 3.14/4x(1.52) ² x0.20 = 0.363 cum [(2x8.133)/360]x(4/3)x3.14x(0.76) ³ =0.083 cum Total= 0.446 cum Less pipe :1.52x3.14/4x(0.15) ² (-) = 0.027 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.419 cum Say 0.42 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : concrete Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For fixing cover : $3.14/4 \times d^2 \times \text{thickness}$ $3.14/4 \times (1.020)^2 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14/4 \times (0.28)^2 \times 0.15 \text{ m} : (-)$ = 0.037 cum Net Quantity= 0.086 cum Say 0.09 cum	cum	0.42	5954.35	2500.83 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement $3.14 \times (1.454 + 0.56) / 2 \times 1.799 = 5.694 \text{ sqm}$ $3.14 \times 0.56 \times 0.075 = 0.13 \text{ sqm}$ Benching $3.14 \times (1.454)^2 / 4 - 1.454 \times 0.15 + 1.454 \times 1/2 \times$ $3.14 \times 0.15 = 1.786 \text{ sqm}$ Total= 7.61 sqm	cum	0.09	7107.10	639.64 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR Extra labour for making channel :	sqm	7.61	235.50	1792.13 A
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
0024	Mason (brick layer) 2nd class	day	0.10	374.50	37.45
7135	S.F.R.C cover Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1.00	880.00	880.00
9977	CARRIAGE	L.S.	6.89	2.00	13.78
9999	Sundries	L.S.	16.9	2.00	33.80
	TOTAL				39247.48 W
	Add 1 % Water charges on "W-A"	1012.63			10.13
	TOTAL				39257.61 X
	Add GST (multiplying factor 0.1405) on "X-A"	1022.76			143.70
	TOTAL				39401.31 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1166.45			174.97
	Total				39576.27 Z
	Add Cess @ 1% on "Z-A"	1341.42			13.41
	Cost of one manhole				39589.69
	Say				39589.70
19.14	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m :				
19.14.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Detail of cost of 1.88 m extra depth				
	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 cement: 4 coarse sand)				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work 12 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement	cum	5.26	5528.25	29078.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	8.99	235.50	2117.12
	Cost for 1.88 metre				31195.71
	Cost for 1.00 metre				16593.46
	Say				16593.45
19.14.2	With Sewer bricks conforming IS : 4885				
	Detail of cost of 1.88 m extra depth Brick work with modular exturded burnt fly ash sewer bricks (confirming to IS 4885) in cement mortar 1:4 (1 cement: 4 coarse sand)				
6.36.1	Rate as per item No 6.36.1 of SH : Brick Work 12 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement	cum	5.26	5715.20	30061.96
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	8.99	235.50	2117.12
	Cost for 1.88 metre				32179.08
	Cost for 1.00 metre				17116.53
	Say				17116.55
19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
19.15.1	With 20x20 mm square bar				
	Details of cost for one M.S foot rests				
	MATERIAL				
	M.S. 20 mm square bar 0.75 m @ 3.137 kg/m = 0.024				
1006	Mild steel square bars	quintal	0.024	4500.00	108.00
9988	Carriage, painting, and other sundries LABOUR for fabrication	L.S.	1.82	2.00	3.64
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.10	320.83	32.08
	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
	0.20x0.20x0.10 m = 0.004 cum				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.004	6577.55	26.31 A
	LABOUR for fixing M.S. foot rests				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				240.53 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"	214.22			2.14
	TOTAL				242.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	216.37			30.40
	TOTAL				273.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	246.77			37.01
	Total				310.09 Z
	Add Cess @ 1% on "Z-A"	283.78			2.84
	Cost for 1 no.				312.93
	Say				312.95

19.15.2 With 20 mm diameter round bar

Details of cost for one M.S foot rests

MATERIAL

M.S. round brass 20 mm dia 0.75 m @ 2.47kg / m = 0.018 q

1003	Mild steel round bar above 12 mm dia	quintal	0.018	4400.00	79.20
9988	Carriage, painting, and other sundries	L.S.	1.82	2.00	3.64
	Labour for fabrication				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.10	320.83	32.08

Cement concrete 1:3:6 (1 cement :
3 coarse sand : 6 graded stone aggregate
20 mm nominal size)
0.20x0.20x0.10 m = 0.004 cum

4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.004	6577.55	26.31 A

LABOUR

0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				211.73 W
	Add 1 % Water charges on "W-A"	185.42			1.85
	TOTAL				213.59 X
	Add GST (multiplying factor 0.1405) on "X-A"	187.28			26.31
	TOTAL				239.90 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	213.59			32.04
	Total				271.94 Z
	Add Cess @ 1% on "Z-A"	245.63			2.46
	Cost for 1 no.				274.40
	Say				274.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. Details of cost for one no. MATERIAL				
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	1	110.00	110.00
9988	Carriage and other sundries	L.S.	1.82	2.00	3.64
	Cement concrete 1:3:6 (0.30x0.20x15 = 0.009 cum)				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.009	6577.55	59.20 A
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				273.30 W
	Add 1 % Water charges on "W-A"	214.10			2.14
	TOTAL				275.44 X
	Add GST (multiplying factor 0.1405) on "X-A"	216.24			30.38
	TOTAL				305.82 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	246.62			36.99
	Total				342.82 Z
	Add Cess @ 1% on "Z-A"	283.62			2.84
	Cost for 1 no.				345.65
	Say				345.65
19.17	Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size):				
19.17.1	With 20x20 mm square bar Details of cost for one M.S foot rests MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	M.S. 20 mm square bar 0.75 m @ 3.137 kg/m =0.024 q				
1006	Mild steel square bars	quintal	0.024	4500.00	108.00
9988	Carriage,painting, and other sundries	L.S.	1.82	2.00	3.64
	Labour for fabrication				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.10	320.83	32.08
	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 0.20x0.20x0.10 m = 0.004 cum				
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.004	6577.55	26.31 A
	LABOUR				
	for dismantling old forts rest cutting holes and fixing new M.S. foot rests				
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				282.09 W
	Add 1 % Water charges on "W-A"	255.78			2.56
	TOTAL				284.65 X
	Add GST (multiplying factor 0.1405) on "X-A"	258.34			36.30
	TOTAL				320.95 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	294.64			44.20
	Total				365.14 Z
	Add Cess @ 1% on "Z-A"	338.83			3.39
	Cost for 1 no.				368.53
	Say				368.55

19.17.2 With 20 mm diameter round bar

Details of cost for one M.S foot rests

MATERIAL

M.S. round bars 20 mm dia 0.75 m @

2.47 kg/m =0.018 q

1003	Mild steel round bar above 12 mm dia	quintal	0.018	4400.00	79.20
9988	Carriage,painting, and other sundries	L.S.	1.82	2.00	3.64
	Labour for fabrication				
0013	Blacksmith 2nd class	day	0.10	374.50	37.45
0017	Beldar	day	0.10	320.83	32.08

Cement concrete 1:3:6 (1 cement :

3 coarse sand : 6 graded stone aggregate

20 mm nominal size)

0.20x0.20x0.10 m = 0.004 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.2.5	Rate as per item no 4.2.5 of SH : Concrete work	cum	0.004	6577.55	26.31 A
	LABOUR				
	for dismantling old forts rest cutting holes and fixing new M.S. foot rests				
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				253.29 W
	Add 1 % Water charges on "W-A"		226.98		2.27
	TOTAL				255.56 X
	Add GST (multiplying factor 0.1405) on "X-A"		229.25		32.21
	TOTAL				287.77 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		261.46		39.22
	Total				326.99 Z
	Add Cess @ 1% on "Z-A"		300.68		3.01
	Cost for 1 no.				330.00
	Say				330.00
19.18	Supplying and fixing C.I. cover without frame for manholes :				
19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg				
	Details of cost for one cover				
	MATERIAL				
1355	Rectangular cover 455x610mm without frame (low duty)	each	1.00	910.00	910.00
9977	Carriage of C.I. Manhole cover	L.S.	7.15	2.00	14.30
	LABOUR				
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				962.80 W
	Add 1 % Water charges on "W"				9.63
	TOTAL				972.43 X
	Add GST (multiplying factor 0.1405) on "X"				136.63
	TOTAL				1109.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				166.36
	Total				1275.41 Z
	Add Cess @ 1% on "Z"				12.75
	Cost for 1 cover				1288.17
	Say				1288.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.18.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg Details of cost for one cover MATERIAL				
1357	500 mm dia cover without frame (medium duty)	each	1.00	2300.00	2300.00
9977	Carriage of C.I. cover LABOUR	L.S.	13.47	2.00	26.94
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				2365.44 W
	Add 1 % Water charges on "W"				23.65
	TOTAL				2389.09 X
	Add GST (multiplying factor 0.1405) on "X"				335.67
	TOTAL				2724.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				408.71
	Total				3133.48 Z
	Add Cess @ 1% on "Z"				31.33
	Cost for 1 no.				3164.81
	Say				3164.80
19.18.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg Details of cost for one cover MATERIAL				
3861	560 mm dia cover without frame (Heavy duty)	each	1.00	5000.00	5000.00
9977	Carriage of C.I. cover LABOUR	L.S.	16.12	2.00	32.24
0017	Beldar	day	0.12	320.83	38.50
	TOTAL				5070.74 W
	Add 1 % Water charges on "W"				50.71
	TOTAL				5121.45 X
	Add GST (multiplying factor 0.1405) on "X"				719.56
	TOTAL				5841.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				876.15
	Total				6717.16 Z
	Add Cess @ 1% on "Z"				67.17
	Cost for 1 no.				6784.33
	Say				6784.35
19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
19.19.1	L D- 2.5				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.19.1.1 Rectangular shape 600x450 mm internal dimensions					
	Details of cost for one no.				
	MATERIAL				
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) 1.00x0.85x0.15 = 0.1275 cum Less cover with frame 0.85x0.70x0.15 = (-) 0.0893 cum = 0.0382 cum Say 0.04 cum	each	1	675.00	675.00
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.04	5954.35	238.17 A
9977	Carriage of R.C.C cover with frame	L.S.	6.76	2	13.52
9999	Sundries	L.S.	13.52	2	27.04
	TOTAL				953.73
	Add 1 % Water charges on "W-A"	715.56			7.16
	TOTAL				960.89 X
	Add GST (multiplying factor 0.1405) on "X-A"	722.72			101.54
	TOTAL				1062.43 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	824.26			123.64
	Total				1186.07 Z
	Add Cess @ 1% on "Z-A"	947.90			9.48
	Cost for 1 no.				1195.55
	Say				1195.55

19.19.1.2 Square shape 450 mm internal dimensions

	Details of cost for one no.				
	MATERIAL				
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	1	575.00	575.00
9977	Carriage of manhole cover Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) 0.725x0.725x0.15 = 0.0788 cum Less cover with frame 0.575x0.575x0.15 = (-) 0.0496 cum = 0.0292 cum Say 0.03 cum	L.S.	6.76	2.00	13.52
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.03	5954.35	178.63 A
9999	Sundries	L.S.	13.52	2	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				794.19 W
	Add 1 % Water charges on "W-A"	615.56			6.16
	TOTAL				800.35 X
	Add GST (multiplying factor 0.1405) on "X-A"	621.72			87.35
	TOTAL				887.70 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	709.07			106.36
	Total				994.06 Z
	Add Cess @ 1% on "Z-A"	815.43			8.15
	Cost for 1 no.				1002.21
	Say				1002.20

19.19.1.3 Circular shape 450 mm internal diameter

Details of cost for one no.

MATERIAL

7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	1	575.00	575.00
9977	Carriage of manhole cover Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $3.14/4 \times (0.775)^2 \times 0.15 = 0.0708$ cum Less cover with frame $3.14/4 \times (0.625)^2 \times 0.15 = (-) 0.0460$ cum = 0.0248 cum Say 0.03 cum	L.S.	6.76	2.00	13.52
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.03	5954.35	178.63 A
9999	Sundries	L.S.	13.52	2	27.04
	TOTAL				794.19 W
	Add 1 % Water charges on "W-A"	615.56			6.16
	TOTAL				800.35 X
	Add GST (multiplying factor 0.1405) on "X-A"	621.72			87.35
	TOTAL				887.70 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	709.07			106.36
	Total				994.06 Z
	Add Cess @ 1% on "Z-A"	815.43			8.15
	Cost for 1 no.				1002.21
	Say				1002.20

19.19.2 M D - 10

19.19.2.1 Square shape 450 mm internal dimension

Details of cost for one no.

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	1	670.00	670.00
9977	Carriage of manhole cover Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $0.95 \times 0.95 \times 0.15 = 0.1354$ cum Less cover with frame $0.80 \times 0.80 \times 0.15 = (-) 0.096$ cum = 0.0394 cum Say 0.04 cum	L.S.	6.76	2.00	13.52
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.04	5954.35	238.17 A
9999	Sundries	L.S.	16.64	2	33.28
	TOTAL				954.97 W
	Add 1 % Water charges on "W-A"	716.80			7.17
	TOTAL				962.14 X
	Add GST (multiplying factor 0.1405) on "X-A"	723.97			101.72
	TOTAL				1063.86 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	825.69			123.85
	Total				1187.71 Z
	Add Cess @ 1% on "Z-A"	949.54			9.50
	Cost for 1 no.				1197.21
	Say				1197.20

19.19.2.2 Circular shape 500 mm internal diameter

Details of cost for one no.

MATERIAL

7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	1.00	575.00	575.00
9977	Carriage of manhole cover Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $3.14/4 \times (0.95)^2 \times 0.15 = 0.1064$ cum Less cover with frame $3.14/4 \times (0.8)^2 \times 0.15 = (-) 0.0754$ cum = 0.031 cum Say 0.03 cum	L.S.	6.76	2.00	13.52
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.03	5954.35	178.63 A
9999	Sundries	L.S.	16.64	2	33.28
	TOTAL				800.43 W
	Add 1 % Water charges on "W-A"	621.80			6.22
	TOTAL				806.65 X
	Add GST (multiplying factor 0.1405) on "X-A"	628.02			88.24
	TOTAL				894.88 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	716.25			107.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1002.32 Z
	Add Cess @ 1% on "Z-A"		823.69		8.24
	Cost for 1 no.				1010.56
	Say				1010.55
19.19.3	H D - 20				
19.19.3.1	Circular shape 560 mm internal diameter				
	Details of cost for one no.				
	MATERIAL				
7135	Circular shape 560 mm dia precast R.C.C.	each	1.00	880.00	880.00
	manhole cover with frame - H.D. - 20				
9977	Carriage of manhole cover	L.S.	13.52	2.00	27.04
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $3.14/4 \times (1.05)^2 \times 0.15 = 0.1299$ cum Less cover with frame $3.14/4 \times (0.9)^2 \times 0.15 = (-) 0.0955$ cum = 0.0344 cum Say 0.03 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete	cum	0.03	5954.35	178.63 A
	Work				
9999	Sundries	L.S.	20.28	2	40.56
	TOTAL				1126.23 W
	Add 1 % Water charges on "W-A"		947.60		9.48
	TOTAL				1135.71 X
	Add GST (multiplying factor 0.1405) on "X-A"		957.08		134.47
	TOTAL				1270.18 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1091.55		163.73
	Total				1433.91 Z
	Add Cess @ 1% on "Z-A"		1255.28		12.55
	Cost for 1 no.				1446.46
	Say				1446.45

19.19.4 EHD - 35

19.19.4.1 Circular shape 560 mm internal dia

Details of cost for one no.

MATERIAL

7136	Circular shape 560 mm dia precast R.C.C.	each	1.00	1170.00	1170.00
	manhole cover with frame - E.H.D. - 35				
9977	Carriage of manhole cover	L.S.	13.52	2.00	27.04
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $3.14/4 \times (1.05)^2 \times 0.15 = 0.1299$ cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Less cover with frame $3.14/4 \times (0.9)^2 \times 0.15 = (-) 0.0955 \text{ cum}$ $= 0.0344 \text{ cum}$ Say 0.03 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.03	5954.35	178.63 A
9999	Sundries	L.S.	20.28	2	40.56
	TOTAL				1416.23 W
	Add 1 % Water charges on "W-A"		1237.60		12.38
	TOTAL				1428.61 X
	Add GST (multiplying factor 0.1405) on "X-A"		1249.98		175.62
	TOTAL				1604.23 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		1425.60		213.84
	Total				1818.07 Z
	Add Cess @ 1% on "Z-A"		1639.44		16.39
	Cost for 1 no.				1834.46
	Cost for 1 no.				1834.46
	Say				1834.45
19.20	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg				
	Details of cost for one cover				
	MATERIAL				
1353	C.I.cover without frame 300x300mm inside i.e.cover of 4.50 kg	each	1.00	477.00	477.00
9988	Carriage for cover	L.S.	2.70	2.00	5.40
	LABOUR				
0017	Beldar	day	0.03	320.83	9.62
	TOTAL				492.02 W
	Add 1 % Water charges on "W"				4.92
	TOTAL				496.95 X
	Add GST (multiplying factor 0.1405) on "X"				69.82
	TOTAL				566.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				85.01
	Total				651.78 Z
	Add Cess @ 1% on "Z"				6.52
	Cost for 1 cover				658.30
	Say				658.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :				
19.21.1	For pipes 100 to 250 mm diameter				
	Details of cost for one connection				
	MATERIAL				
	Cement concrete 1 : 2 : 4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) = 0.30x0.30x0.23 m = 0.0207 cum Less pipe = 1/2x3.14x0.23x0.23x0.23 = 0.0096 cum = 0.0111 cum Say 0.01 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete	cum	0.01	5954.35	59.54 A
	12 mm cement plater 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement 2x0.35x0.35 =0.25sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	0.25	235.50	58.87 A
	LABOUR				
	(For cutting holes average size 30x30 cm in 23 cm thick wall and making channel etc.)				
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.25	320.83	80.21
9999	Add for delay sundries etc.	L.S.	20.15	2.00	40.30
	TOTAL				340.99
	Add 1 % Water charges on "W-A"	222.57			2.23
	TOTAL				343.21 X
	Add GST (multiplying factor 0.1405) on "X-A"	224.79			31.58
	TOTAL				374.79 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	256.38			38.46
	Total				413.25 Z
	Add Cess @ 1% on "Z-A"	294.83			2.95
	Cost for 1 connection				416.20
	Say				416.20

19.21.2 For pipes 250 to 300 mm diameter

Details of cost for one connection

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) = 0.35x0.35x0.30 m = 0.037 cum Less pipe = 1/2x3.14x0.30x0.30x0.30 = 0.021 cum = 0.016 cum Say 0.02 cum				
4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.02	5954.35	119.09 A
	12 mm cement plater 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement 2x0.40x0.40 =0.32 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR (For cutting holes average size 30x30 cm in 23 cm thick wall and making channel etc.)	sqm	0.32	235.50	75.36 A
0023	Mason (brick layer) 1st class	day	0.12	476.00	57.12
0024	Mason (brick layer) 2nd class	day	0.12	374.50	44.94
0017	Beldar	day	0.25	320.83	80.21
9999	Add for delay sundries etc.	L.S.	20.67	2.00	41.34
	TOTAL				418.05 W
	Add 1 % Water charges on "W-A"	223.61			2.24
	TOTAL				420.29 X
	Add GST (multiplying factor 0.1405) on "X-A"	225.84			31.73
	TOTAL				452.02 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	257.57			38.64
	Total				490.66 Z
	Add Cess @ 1% on "Z-A"	296.21			2.96
	Cost for 1 connection				493.62
	Say				493.60

19.21.3 For pipes 350 to 450 mm diameter

Details of cost for one connection

MATERIAL

Cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size)
= 0.50x0.50x0.30 m = 0.075 cum
Less pipe = 1/2x3.14x0.45x0.45x0.30
= 0.048 cum
= 0.027 cum Say 0.03 cum

4.1.3	Rate as per item no. 4.1.3 of SH : Concrete Work	cum	0.03	5954.35	178.63 A
	12 mm cement plater 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement 2x0.55x0.55 =0.605 sqm Say 0.60 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing LABOUR	sqm	0.60	235.50	141.30 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(For cutting holes average size 30x30 cm in 23 cm thick wall and making channel etc.)				
0023	Mason (brick layer) 1st class	day	0.16	476.00	76.16
0024	Mason (brick layer) 2nd class	day	0.16	374.50	59.92
0017	Beldar	day	0.33	320.83	105.87
9999	Add for delay sundries etc.	L.S.	26.91	2.00	53.82
	TOTAL				615.70 W
	Add 1 % Water charges on "W-A"	295.77			2.96
	TOTAL				618.66 X
	Add GST (multiplying factor 0.1405) on "X-A"	298.73			41.97
	TOTAL				660.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	340.70			51.11
	Total				711.74 Z
	Add Cess @ 1% on "Z-A"	391.81			3.92
	Cost for 1 connection				715.66
	Say				715.65
19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :				
19.22.1	100 mm dia sand cast iron drop connection				
	Details of cost for one drop connection				
	MATERIAL				
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia = 38+30+33 =101 cm say 1 metre Length of pipe = 1m. Hence, Qty = 1 / 1.8 =0.55556 Nos	each	0.55556	1135.00	630.56
9977	Carriage of pipe Cutting charges	L.S.	1.43	2.00	2.86
18.83.2	Rate as per item no 18.83.2 of SH: Water supply	each cut	3.00	92.60	277.81 A
1336	Clearing eye with chain and lid 100 mm dia	each	1.00	44.00	44.00
1621	S.C.I. plain bend 100 mm dia	each	1.00	258.00	258.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia Brick work in cement mortar 1:4 (1 cement : 4 coarse sand)	each	1.00	360.00	360.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.20x0.20x0.23 = 0.009 cum Less pipe 1/2x3.14x0.10x0.10x0.23 = 0.002 cum Net Qty= 0.009 - 0.002 = 0.007 cum				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.40x0.45x1.05 m = 0.189 cum 0.40x0.25x0.40 = 0.040 cum Total= 0.229 cum Less pipe portion 1/2x3.14x0.10x0.10x1.50 = 0.012 cum Toothing portion 2x0.40x0.05x0.10 m = 0.004 cum = 0.016 cum Net Qty= 0.229-0.016 = 0.213 cum Say 0.21 cum	cum	0.007	5528.25	38.70 A
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 1x0.25x0.25 m = 0.0625 Say 0.06 sqm	cum	0.21	4390.60	922.03 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Providing lead caulked joints to 100 mm diameter pipe and special	sqm	0.06	235.50	14.13
12.39.1	Rate as per item no. 12.39.1 of SH : Roofing	each	4.00	337.60	1350.41 A
9999	Providing joint to S.W. pipe with cement mortar 1:1 (1 cement : 1 fine sand) Form work 1.30x1.05 m = 1.36 sqm	L.S.	26.91	2.00	53.82
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	1.36	411.15	559.17 A
9988	Sundries including carriage of bends etc. LABOUR For cutting holes 5 cm deep in alternate course of brick work benching and channel	L.S.	26.91	2.00	53.82
0023	Mason (brick layer) 1st class	day	0.70	476.00	333.20
0024	Mason (brick layer) 2nd class	day	0.70	374.50	262.15
0017	Beldar	day	2.70	320.83	866.24
	TOTAL				6026.89 W
	Add 1 % Water charges on "W-A"	2878.78			28.79
	TOTAL				6055.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	2907.57			408.51
	TOTAL				6464.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	3316.08			497.41
	Total				6961.60 Z
	Add Cess @ 1% on "Z-A"	3813.50			38.13

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one drop connection				6999.74
	Say				6999.75
19.22.2	150 mm dia sand cast iron drop connection				
	Details of cost for one drop connection				
	MATERIAL				
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150mm dia = 34.5+30+37 =101.5cm say 1.00m Length of pipe = 1m. Hence, Qty = 1 / 1.8 =0.55556 No.s	each	0.55556	1750.00	972.23
9977	Carriage of pipe Cutting charges	L.S.	1.82	2.00	3.64
18.83.4	Rate as per item no 18.83.4 of SH Water Supply	each cut	3.00	174.20	522.60 A
1337	Clearing eye with chain and lid 150 mm dia	each	1.00	50.00	50.00
1622	S.C.I. plain bend 150 mm dia	each	1.00	460.00	460.00
7087	S.C.I. Tee 150 mm	each	1.00	570.00	570.00
	Brick work in cement mortar 1:4 (1 cement : 4 coarse sand) 0.20x0.20x0.23 = 0.009 cum Less pipe 1/2x3.14x0.15x0.15x0.23 = 0.004 cum Net Qty= 0.005 cum				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.45x0.50x1.15 m = 0.259 cum 0.45x0.25x0.45 = 0.0510 cum = 0.310 cum Less pipe portion 1/4x3.14x0.15x0.15x1.50 = 0.027 cum Toothing portion 3x0.45x0.05x0.10 m = 0.004 cum = 0.027 + 0.004 = 0.031 cum Net Qty 0.310-0.031 = 0.279 cum Say 0.28 cum	cum	0.005	5528.25	27.64 A
4.1.11	Rate as per item no 4.1.11 of SH : Concrete 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement 1x0.25x0.25 m = 0.0625 Say 0.06 sqm	cum	0.28	4390.60	1229.37 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Providing lead caulked joints to 150 mm diameter pipe and special	sqm	0.06	235.50	14.13 A
12.39.2	Rate as per item no. 12.39.2 of SH : Roofing	each	4.00	467.70	1870.78 A
9999	Providing joint to S.W. pipe with cement mortar 1:1 (1 cement : 1 fine sand) Form work	L.S.	39.91	2	79.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1.450x1.15 m = 1.67 sqm				
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	1.67	411.15	686.63 A
9988	Sundries including carriage of bends etc.	L.S.	34.06	2.00	68.12
	LABOUR				
	For cutting holes 45 holes 5 cm deep toothing in alternate course of brick work benching and making channel				
0023	Mason (brick layer) 1st class	day	0.85	476.00	404.60
0024	Mason (brick layer) 2nd class	day	0.85	374.50	318.33
0017	Beldar	day	3.50	320.83	1122.91
	TOTAL				8400.78 W
	Add 1 % Water charges on "W-A"	4049.64			40.50
	TOTAL				8441.28 X
	Add (multiplying factor 0.1405) on "X-A"	4090.14			574.66
	TOTAL				9015.94 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4664.80			699.72
	Total				9715.66 Z
	Add Cess @ 1% on "Z-A"	5364.52			53.65
	Cost of one drop connection				9769.31
	Say				9769.30

19.23 Extra for depths beyond 60 cm of sand cast iron drop connection complete:

19.23.1 For 100 mm dia sand cast iron drop connection

Details of cost for one metre

MATERIAL

1617 S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia Length of pipe = 1m.
Hence, Qty = $1 / 1.8 = 0.55556$ Nos.

9977 Carriage of material and fixing charges Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)

0.40x0.45x1.00 m = 0.18 cum

Less pipe portion

$1/2 \times 3.14 \times 0.10 \times 0.10 \times 1.00 = 0.008$ cum

Toothing portion

$5 \times 0.40 \times 0.05 \times 0.10 \text{ m} = 0.010$ cum

Total = 0.018 cum

Net Qty = $0.18 - 0.018 = 0.162$ cum Say 0.16 cum

4.1.11 Rate as per item no 4.1.11 of SH : Concrete Work Form work
1.30x1.00 m = 1.30 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	1.30	411.15	534.50 A
9999	Sundries	L.S.	7.15	2.00	14.30
	LABOUR				
	For cutting holes 5 cm deep in alternate course of brick work				
0023	Mason (brick layer) 1st class	day	0.04	476.00	19.04
0024	Mason (brick layer) 2nd class	day	0.04	374.50	14.98
0017	Beldar	day	0.04	320.83	12.83
	TOTAL				1955.49 W
	Add 1 % Water charges on "W-A"	718.49			7.18
	TOTAL				1962.67 X
	Add GST (multiplying factor 0.1405) on "X-A"	725.68			101.96
	TOTAL				2064.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	827.64			124.15
	Total				2188.78 Z
	Add Cess @ 1% on "Z-A"	951.78			9.52
	Cost of one drop connection				2198.30
	Say				2198.30

19.23.2 For 150 mm dia sand cast iron drop connection

Details of cost for one metre

MATERIAL

1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150mm dia Length of pipe = 1m. Hence, Qty = 1 / 1.8 = 0.55556 Nos.	each	0.55556	1750.00	972.23
9977	Carriage of material and fixing charges Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 0.45x0.50x1.00 mm = 0.225 cum Less pipe portion 1/2x3.14x0.15x0.15x1.00 = 0.018 cum Toothing portion 5x0.45x0.05x0.10 m = 0.011 cum Total = 0.029 cum Net 0.225-0.029 = 0.196 cum Say 0.20 cum	L.S.	13.39	2.00	26.78
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Form work 1.45x1.00 m = 1.45 sqm	cum	0.20	4390.60	878.12 A
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	1.45	411.15	596.17 A
9999	Sundries	L.S.	8.09	2.00	16.18
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For cutting 5 cm deep in alternate course of brick work				
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0017	Beldar	day	0.05	320.83	16.04
	TOTAL				2548.05 W
	Add 1 % Water charges on "W-A"	1073.76			10.74
	TOTAL				2558.79 X
	Add GST (multiplying factor 0.1405) on "X-A"	1084.49			152.37
	TOTAL				2711.16 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1236.87			185.53
	Total				2896.69 Z
	Add Cess @ 1% on "Z-A"	1422.40			14.22
	Cost of one drop connection				2910.91
	Say				2910.90

19.24 Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead as per direction of Engineer in-charge :

19.24.1 Rectangular manhole 90x80 cm and 45 cm deep

Details of cost of a manhole 90x80 cm and 45 cm deep

Dismantling of cement concrete 1:4:8 (1 cement : 4 coarse sand 8 : aggregate stone 40 mm nominal size)
 $1.51 \times 1.41 \times 0.20 \text{ m} = 0.426 \text{ cum}$ Say 0.43 cum

15.2.2 Rate as per item no. 15.2.2 of cum 0.43 619.05 266.19 A

SH : Dismantling and demolishing Dismantling of secon class brick work in cement mortar 1:4 (1 cement : 4 coarse sand)
 $4.32 \times 0.23 \times 0.35 \text{ m} = 0.348 \text{ cum}$
Less for pipe $2 \times 3.14 \times (0.15 \text{ m})^2 \times 0.23 \text{ m}$
 $= (-) 0.008 \text{ cum}$

Net Qty $0.348 - 0.008 = 0.340 \text{ cum}$

15.7.4 Rate as per item no. 15.7.4 of cum 0.34 847.95 288.30 A

SH :dismantling and dimolishing Dismantling cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)
For benching $2 \times 0.90 \times (0.80/2) \times (0.30 + 0.20)/2 = 0.18 \text{ cum}$
Less for pipe $1 \times 0.90 \times 3.14/4 \times (0.15 \text{ m})^2 = (-)$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.02 cum Net qty= 0.16 cum				
15.2.1	Rate as per item no. 15.2.1 of	cum	0.16	1004.45	160.71 A
	SH : Dismantling and demolishing Dismantling of R.C.C slab of 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) For slab : 1.36x1.26x0.15m = 0.257 cum Less for cover 0.61x0.455x0.15m = (-) 0.042 cum Net qty= 0.215 cum Say 0.22 cum				
15.3	Rate as per item no 15.3 of	cum	0.22	1465.35	322.38 A
	SH : Demolishing and dismantling				
9999	Removal of C.I. Cover with frame	L.S.	7.15	2	14.30
	TOTAL				1051.88 W
	Add 1 % Water charges on "W-A"	14.30			0.14
	TOTAL				1052.02 X
	Add GST (multiplying factor 0.1405) on "X-A"	14.44			2.03
	TOTAL				1054.05 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	16.47			2.47
	Total				1056.52 Z
	Add Cess @ 1% on "Z-A"	18.94			0.19
	Cost of one no				1056.71
	Say				1056.70

19.24.2 Rectangular manhole 120x90 cm and 90 cm deep

Details of cost of a manhole 120x90 and

90 cm deep

	Dismantling of cement concrete 1:4:8 (1 cement : 4 coarse sand 8 : aggregate stone 40 mm nominal size) 1.81x1.51x0.20 m = 0.547 cum Say 0.55 cum				
15.2.2	Rate as per item no. 15.2.2 of	cum	0.55	619.05	340.48 A
	SH : Dismantling and demolishing Dismantling of secon class brick work in cement mortar 1:4 (1 cement : 4 coarse sand) 5.12x0.23x0.80 m = 0.942 cum Less for pipe 2x3.14x(0.15m) ² x0.23 m = (-) 0.008 cum Net qty = 0.934 cum Say 0.93 cum				
15.7.4	Rate as per item no. 15.7.4 of	cum	0.93	847.95	788.59 A
	SH : dismantling and dimolishing Dismantling cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 2x1.20x0.90x(0.80/2) x (0.30+0.20)/2 = 2.70 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Less for pipe $1.20 \times 3.14/4 \times (0.15\text{m})^2$ = (-) 0.021 cum = 0.249 cum say 0.25				
15.2.1	Rate as per item no. 15.2.1 of SH : Dismantling and demolishing Dismantling of R.C.C slab of 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) For slab : $1.66 \times 1.36 \times 0.15\text{m} = 0.339\text{ cum}$ Less for cover $3.14/4 \times (0.50)^2 \times 0.15\text{m}$ = (-) 0.029 cum Net qty = 0.31 cum	cum	0.25	1004.45	251.11 A
15.3	Rate as per item no 15.3 of	cum	0.31	1465.35	454.26 A
9999	SH : Demolishing and dismantling Removal of C.I. Cover with frame	L.S.	7.15	2	14.30
	TOTAL				1848.74 W
	Add 1 % Water charges on "W-A"	14.30			0.14
	TOTAL				1848.88 X
	Add GST (multiplying factor 0.1405) on "X-A"	14.44			2.03
	TOTAL				1850.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	16.47			2.47
	Total				1853.38 Z
	Add Cess @ 1% on "Z-A"	18.94			0.19
	Cost of one no				1853.57
	Say				1853.55

19.24.3 Rectangular arch type manhole 140x90 cm and 2.45 m deep

	Details of cost of a manhole 140x90 cm and 2.45 m deep Dismantling of cement concrete 1:4:8 (1 cement : 4 coarse sand 8 : aggregate stone 40 mm nominal size) $2.16\text{m} \times 1.66\text{m} \times 0.20\text{m} = 0.72\text{ cum}$				
15.2.2	Rate as per item no. 15.2.2 of SH : Dismantling and demolishing Dismantling of second class brick work in cement mortar 1:4 (1 cement : 4 coarse sand) Brick work in item $5.52\text{m} \times 0.23\text{m} \times 1.20\text{m}$ = 1.524 cum $3.92\text{m} \times 0.23\text{m} \times 1.15\text{m} = 1.037\text{ cum}$ = 2.561 cum Deduct arch ring and portion of pipe $2 \times \frac{1}{2} \times 3.14 \times 0.25\text{m} \times 0.23 \times 0.1\text{m} = 0.018\text{ cum}$ $2 \times 3.14/4 \times (0.15)^2 \times 0.23\text{m} = 0.008\text{ cum}$ = (-) 0.026 cum Net qty = 2.561 - 0.026 = 2.535 cum Say 2.54 cum Brick work in arch $\frac{1}{2} \times 3.14 \times 1.13 \times 0.80 \times 0.23\text{m} = 0.327\text{ cum}$	cum	0.72	619.05	445.72 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.23 \times 0.1 \text{ m} = 0.018 \text{ cum}$ $= 0.345 \text{ cum}$ Say 0.35 cum Net qty = $2.54 + 0.35 = 2.89 \text{ cum}$				
15.7.4	Rate as per item no. 15.7.4 of SH : dismantling and demolishing Dismantling cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) $2 \times 1.4 \times 0.90 / 2 \times (0.20 + 0.30) / 2 = 0.315 \text{ cum}$ Less pipe $1.4 \times 3.14 / 4 \times (0.15)^2 = (-) 0.025 \text{ cum}$ Net qty = 0.290 cum	cum	2.89	847.95	2450.58 A
15.2.1	Rate as per item no. 15.2.1 of SH : Dismantling and demolishing Dismantling of R.C.C slab of 1:2:4 (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm nominal size) $1.36 \text{ m} \times 1.06 \text{ m} \times 0.15 = 0.216 \text{ cum}$ Less cover $3.14 / 4 \times (0.50)^2 \times 0.15 \text{ m}$ $= (-) 0.029 \text{ cum}$ $= 0.187 \text{ cum}$ Say 0.19 cum	cum	0.29	1004.45	291.29 A
15.3	Rate as per item no 15.3 of SH : Demolishing and dismantling	cum	0.19	1465.35	278.42 A
9999	Removal of C.I. Cover with frame	L.S.	7.15	2	14.30
9999	Removal of M.S foot rest	L.S.	8.06	2	16.12
	TOTAL				3496.42 W
	Add 1 % Water charges on "W-A"	30.42			0.30
	TOTAL				3496.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	30.72			4.32
	TOTAL				3501.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	35.04			5.26
	Total				3506.30 Z
	Add Cess @ 1% on "Z-A"	40.30			0.40
	Cost of one no				3506.70
	Say				3506.70

19.24.4 Circular manhole 122 cm diameter and 1.68 m deep

Details of cost of a manhole 1.22 m internal diameter 1.68 m deep
Dismantling of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 aggregate stone 40 mm nominal size)
 $1.98 \times 1.98 \times 0.30 \text{ m} = 1.178 \text{ cum}$ Say 1.18 cum

15.2.1 Rate as per item no 15.2.1 of SH : Dismantling
Dismantling of second class brick work in cement mortar 1:4 (1 cement : 4 coarse sand 8)
Curved on plan
 $3.14 \times 1.45 \times 0.24 \times 0.23 = 0.251$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$3.14 \times (1.45 + 0.79) / 2 \times 1.32 \times 0.23 = 1.069 = 1.320$ Duduct arch ring and portion of pipe $2 \times \frac{1}{2} \times 3.14 \times 0.25 \times 0.23 \times 0.10 \text{ m} = 0.018 \text{ cum}$ $2 \times 3.14 / 4 \times (0.15)^2 \times 0.23 = 0.008 \text{ cum}$ = 0.026 cum Net quantity $1.320 - 0.026 = 1.294$ Say 1.29 cum Brick work in arches $2 \times \frac{1}{2} \times 3.14 \times 0.25 \text{ m} \times 0.230 \times 0.10 \text{ m}$ = 0.018 cum Say 0.02 cum Total = $1.294 + 0.02 = 1.1.314$ cum Say 1.131 cum				
15.7.4	Rate as per item no. 15.7.4 of	cum	1.31	847.95	1110.82 A
	SH :dismantling and demolishing Dismantling cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) For benching : $3.14 / 4 \times (1.22)^2 \times 0.20 = 0.234 \text{ cum}$ $[(2 \times 8.133) / 360] \times (4/3) \times 3.14 \times (0.61)^3$ Total = 0.043 cum $0.024 + 0.043 = 0.277 \text{ cum}$ Less pipe : $1.22 \times 3.14 / 4 \times (0.15)^2 (-)$ = 0.0216 cum Net Qty. = $0.277 - 0.0216 = 0.26 \text{ cum}$ In cover fixing $0.7854 \times 1.020 \times 1.020 \times 0.15 \text{ m}$ = 0.123 cum Less cover $3.14 / 4 \times (0.28)^2 \times 0.15 \text{ m} : (-)$ = 0.037 cum = 0.086 cum Say 0.09 cum Total = $0.26 + 0.09 = 0.35 \text{ cum}$				
15.2.1	Rate as per item no 15.2.1 of	cum	0.35	1004.45	351.56 A
	SH : Demolishing and dismantling				
9999	Removal of S.F.R.C cover with frame size 560 mm diameter (medium duty)	L.S.	7.15	2	14.30
9999	Removal of M.S. foot rests	L.S.	8.06	2	16.12
	TOTAL				2678.04 W
	Add 1 % Water charges on "W-A"	30.42			0.30
	TOTAL				2678.35 X
	Add GST (multiplying factor 0.1405) on "X-A"	30.72			4.32
	TOTAL				2682.66 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	35.04			5.26
	Total				2687.92 Z
	Add Cess @ 1% on "Z-A"	40.30			0.40
	Cost of one no				2688.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				2688.30

19.25 Extra for depth of manholes dismantled :

19.25.1 Rectangular manhole 90x80 cm and beyond 45 cm depth

Details of cost for one metre

Dismantling of second class brick work in cement mortar 1:5 (1 Cement : 5 fine sand)
4.32x0.23x1.0m = 0.994 cum Say 0.99 cum

15.7.4	Rate as per item no. 15.7.4 of	cum	0.99	847.95	839.47 A
	SH :dismantling and demolishing				
9999	Removing of M.S. foot rests	L.S.	1.82	2	3.64
	TOTAL				843.11 W
	Add 1 % Water charges on "W-A"		3.64		0.04
	TOTAL				843.15 X
	Add GST (multiplying factor 0.1405) on "X-A"		3.68		0.52
	TOTAL				843.66 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		4.19		0.63
	Total				844.29 Z
	Add Cess @ 1% on "Z-A"		4.82		0.05
	Cost for one metre				844.34
	Say				844.35

19.25.2 Rectangular manhole 120x90 cm and beyond 90 cm depth

Details of cost for one metre

Dismantling of second class brick work in cement mortar 1:5 (1 Cement : 5 fine sand)
5.12x0.23x1.0m = 1.178 cum Say 1.18 cum

15.7.4	Rate as per item no. 15.7.4 of	cum	1.18	847.95	1000.58 A
	SH :dismantling and demolishing				
9999	Removing of M.S. foot rests	L.S.	1.82	2	3.64
	TOTAL				1004.22
	Add 1 % Water charges on "W-A"		3.64		0.04
	TOTAL				1004.26 X
	Add GST (multiplying factor 0.1405) on "X-A"		3.68		0.52
	TOTAL				1004.77 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		4.19		0.63
	Total				1005.40 Z
	Add Cess @ 1% on "Z-A"		4.82		0.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for one metre				1005.45
	Say				1005.45
19.25.3	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)				
	Details of cost of dismantling one manhole				
	4.25m deep				
	Dismantling IInd class brick work in cement mortar				
	1:4 (1 Cement : 4 Coarse sand) for				
	2.45 depth				
	Qty for 2.45m depth				
	$5.52\text{m} \times 0.23\text{m} \times 1.20\text{m} = 1.524 \text{ cum}$				
	$3.92\text{m} \times 0.23\text{m} \times 1.15\text{m} = 1.037 \text{ cum}$				
	Total = 2.561 cum				
	Deduct arch ring and portion of pipe				
	$2 \times \frac{1}{2} \times 3.14 \times 0.25\text{m} \times 0.23 \times 0.1\text{m} = 0.018 \text{ cum}$				
	$2 \times 3.14 / 4 \times (0.15)^2 \times 0.23\text{m} = 0.008 \text{ cum}$				
	Total deduction= = (-) 0.026 cum				
	Net 2.561 - 0.026 = 2.535 cum Say 2.54 cum Qty in				
	arch				
	$\frac{1}{2} \times 3.14 \times 1.13 \times 0.80 \times 0.23\text{m} = 0.327 \text{ cum}$				
	$2 \times \frac{1}{2} \times 3.14 \times 0.25\text{m} \times 0.23 \times 0.1\text{m} = 0.018 \text{ cum}$				
	Total = 0.345 cum Say 0.35 cum				
	Total for 4.45 m depth 2.54 + 0.35				
	= 2.89 cum				
	Qty for 4.25m depth				
	$5.52\text{m} \times 0.23\text{m} \times 1.20\text{m} = 1.524 \text{ cum}$				
	$3.92\text{m} \times 0.23\text{m} \times 2.95\text{m} = 2.660 \text{ cum}$				
	Total = 4.184 cum				
	Deduct arch ring and portion of pipe				
	$2 \times \frac{1}{2} \times 3.14 \times 0.70\text{m} \times 0.23 \times 0.1\text{m} = 0.051 \text{ cum}$				
	$2 \times 3.14 / 4 \times (0.60)^2 \times 0.23 = 0.130 \text{ cum}$				
	Total deduction== (-) 0.181 cum				
	Net 4.184 - 0.181 = 4.003 cum Say 4.00 cum				
	Qty in arch				
	$\frac{1}{2} \times 3.14 \times 1.13 \times 0.80 \times 0.23\text{m} = 0.327 \text{ cum}$				
	$2 \times \frac{1}{2} \times 3.14 \times 0.70\text{m} \times 0.23 \times 0.1\text{m} = 0.051 \text{ cum}$ Total =				
	0.378 cum Say 0.38 cum				
	Total for 2.25 m depth = 4.0+ 0.38 =4.38 cum				
	Net difference = 4.38 - 2.89 = 1.49 cum				
15.7.4	Rate as per item no. 15.7.4 of	cum	1.49	847.95	1263.45 A
	SH :dismantling and demolishing				
	Dismantling cement concrete 1:2:4 (1 Cement : 2				
	coarse sand : 4 graded stone aggregate 40mm				
	nominal size)				
	Qty for 4.25m depth				
	$2 \times 1.4 \times (0.90/2) \times (0.65+0.75)/2 = 0.882 \text{ cum}$				
	Less pipe : $1.4 \times 3.14 / 4 \times (0.60)^2 \times (-) = 0.396 \text{ cum}$				
	= 0.486 cum Say 0.49 cum				
	Qty for 2.45m depth				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	$2 \times 1.4 \times (0.90/2) \times (0.20 + 0.30)/2 = 0.315 \text{ cum}$ Less pipe : $1.4 \times 3.14/4 \times (0.15)^2 (-) = 0.025 \text{ cum}$ = 0.290 cum Say 0.29 cum Net difference = $0.49 - 0.29 = 0.20 \text{ cum}$				
15.2.1	Rate as per item no 15.2.1 of	cum	0.20	1004.45	200.89 A
	SH : Demolishing and dismantling				
	Cost for 1.8 metre depth				1464.34
	Cost for 1 metre depth				813.52
	Say				813.50
19.25.4	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)				
	Details of cost for 0.61 metre				
	Dismantling cement concrete 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) $1.98 \times 1.98 \times 0.30 = 1.178 \text{ cum}$. Say 1.18 cum.				
15.2.1	(Rate as per item No.15.2.1 of SH. dismantling and Demolishing) Dismantling IInd class brick work in cement mortar 1:4 (1 Cement : 4 Coarse sand)	cum	1.18	1004.45	1185.25 A
	Curved on plan $3.14 \times 1.45 \times 0.85 \times 0.23 = 0.891$ $3.14 \times (1.45 + 0.79)/2 \times 1.32 \times 0.23 = 1.069$ Total = $0.891 + 1.069 = 1.96 \text{ cum}$ Duduct arch ring and portion of pipe $2 \times 1/2 \times 3.14 \times 0.25 \times 0.23 \times 0.10 \text{ m} = 0.018 \text{ cum}$ $2 \times 3.14/4 \times (0.15)^2 \times 0.23 = 0.008 \text{ cum}$ Total deduction = 0.026 cum Net quantity $1.96 - 0.026 = 1.934$ Say 1.93 cum Qty in arch $2 \times 1/2 \times 3.14 \times 0.25 \text{ m} \times 0.23 \times 0.10 \text{ m}$ = 0.018 cum Say 0.02 cum				
15.7.4	Rate as per item no 15.7.4 of SH : Dismantling and demolishing Dismantling cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size For benching : For benching : $3.14/4 \times (1.22)^2 \times 0.20 = 0.234 \text{ cum}$ $[(2 \times 8.133)/360] \times (4/3) \times 3.14 \times (0.61)^3 = 0.043 \text{ cum}$ = 0.277 cum Less pipe : $1.22 \times 3.14/4 \times (0.15)^2 (-) = 0.0216 \text{ cum}$ Net qty = 0.2554 cum Say 0.26 cum For fixing cover : $3.14/4 \times d^2 \times \text{thickness}$ $0.7854 \times 1.020 \times 1.020 \times 0.15 \text{ m} = 0.123 \text{ cum}$ Less cover $3.14/4 \times (0.28)^2 \times 0.15 \text{ m} = (-) 0.037 \text{ cum}$ Net qty = 0.086 cum Say 0.09 cum Total = $0.26 + 0.09 = 0.35 \text{ cum}$	cum	1.97	847.95	1670.46 A
15.2.1	Rate as per item no 15.2.1 of SH : Dismantling	cum	0.35	1004.45	351.56 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Removal of SFRC cover	L.S.	7.15	2.00	14.30
9999	Removal of M.S. foot rests Deduct cost of dismantling manhole 1.68m deep	L.S.	8.09	2.00	16.18
19.24.4	Rate as per Item No.19.24.4 of SH: DRAINAGE	each	-1	2688.30	-2688.30 A
					549.45 W
	Add 1 % Water charges on "W-A"	30.48			0.30
	TOTAL				549.75 X
	Add GST (multiplying factor 0.1405) on "X-A"	30.78			4.33
	TOTAL				554.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	35.11			5.27
	Total				559.35 Z
	Add Cess @ 1% on "Z-A"	40.38			0.40
	Cost of manhole 0.61m depth				559.75
	Cost per metre depth				917.62
	Say				917.60
19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :				
19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5				
	Details of cost for one manhole				
	Dismantling of R.C.C slab of 1:1.5:3 (1 cement : 1.5 coarse sand (Zone -III): 3 aggregate stone 20 mm nominal size) = $1.36 \times 1.26 \times 0.15 = 0.257$ cum Less cover with frame portion $0.85 \times 0.70 \times 0.15 = (-) 0.089$ cum Net qty=0.168 cum Say 0.17 cum				
15.3	Rate as per item no. 15.3 of SH : Dismantling and demolishing	cum	0.17	1465.35	249.11 A
9999	Removal of R.C.C cover and frame	L.S.	7.15	2.00	14.30
	Removal of R.C.C work 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) For raised slab = $1.36 \times 1.26 \times 0.15 = 0.257$ cum Less portion cover with frame = $0.85 \times 0.70 \times 0.15 = (-) 0.089$ cum Net qty = 0.168 cum Say 0.17 cum				
5.3	Rate as per item no. 5.3 of SH : RCC work	cum	0.17	7835.75	1332.08 A
	Form work = $0.90 \times 0.80 = 0.72$ sqm Less cover = $0.60 \times 0.45 = (-) 0.27$ sqm Net qty = 0.45 sqm				
5.9.3	Rate as per item no 5.9.3 of SH : RCC work	sqm	0.45	468.30	210.74 A
9999	Sundries	L.S.	13.52	2.00	27.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1833.26 W
	Add 1 % Water charges on "W-A"	41.34			0.41
	TOTAL				1833.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	41.75			5.87
	TOTAL				1839.54 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	47.62			7.14
	Total				1846.69 Z
	Add Cess @ 1% on "Z-A"	54.76			0.55
	Cost for qne No.				1847.23
	Say				1847.25
19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10				
	Details of cost for one manhole Dismantling of R.C.C slab of 1:1.5:3 (1 cement : 1.5coarse sand : 3 aggregate stone 20 mm nominal size)				
	1.66x1.36x0.15 = 0.339 cum				
	Less for R.C.C cover with frame				
	3.14/4x(0.80) ² x0.15 =(-) 0.075 cum				
	Net qty 0.264 cum Say 0.26 cum				
15.3	Rate as per item no. 15.3 of	cum	0.26	1465.35	380.99 A
	SH : Dismantling and demolishing				
9999	Removal of R.C.C cover and frame	L.S.	7.15	2	14.30
	R.C.C work 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)				
	1.66x1.36x0.15 = 0.339 cum				
	Less portion cover with frame				
	= 3.14/4x0.80x0.80x0.15 =(-) 0.075 cum				
	Net qty= 0.264 cum Say 0.26 cum				
5.3	Rate as per item no 5.3 of SH : RCC Work	cum	0.26	7835.75	2037.29 A
	Form work = 1.2x0.90 = 1.08 sqm				
	Less cover = 3.14/4x(0.50) ² =(-) 0.196 sqm				
	Net qty= 0.884 sqm Say .88 sqm				
5.9.3	Rate as per item no 5.9.3 of SH : RCC work	sqm	0.88	468.30	412.11 A
9999	Sundries	L.S.	16.64	2	33.28
	TOTAL				2877.97 W
	Add 1 % Water charges on "W-A"	47.58			0.48
	TOTAL				2878.45 X
	Add GST (multiplying factor 0.1405) on "X-A"	48.06			6.75
	TOTAL				2885.20 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	54.81			8.22
	Total				2893.42 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z-A"		63.03		0.63
	Cost of one no				2894.05
	Say				2894.05
19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20				
	Details of cost for one manhole Dismantling of R.C.C slab of 1:1.5:3(1 cement : 1.5 coarse sand : 3 aggregate stone 20 mm nominal size) $1.66 \times 1.36 \times 0.15 = 0.339$ cum Less for R.C.C cover with frame $3.14/4 \times (0.90)^2 \times 0.15 = (-) 0.095$ cum Net qty 0.244 cum Say 0.24 cum				
15.3	Rate as per item no 15.3 of	cum	0.24	1465.35	351.68 A
	SH : Dismantling and demolishing				
9999	Removal of R.C.C cover and frame	L.S.	7.15	2	14.30
	R.C.C work 1:1.5:3 1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) $1.66 \times 1.36 \times 0.15 = 0.339$ cum Less portion cover with frame $= 3.14/4 \times 0.90 \times 0.90 \times 0.15 = (-) 0.095$ cum Net qty= 0.244 cum Say 0.24 cum				
5.3	Rate as per item no 5.3 of SH : RCC Work	cum	0.24	7835.75	1880.58 A
	Form work = $1.2 \times 0.90 = 1.08$ sqm Less cover = $3.14/4 \times (0.56)^2 = (-) 0.246$ sqm Net qty= 0.834 sqm Say .83 sqm				
5.9.3	Rate as per item no 5.9.3 of SH : RCC work	sqm	0.83	468.30	388.69 A
9999	Sundries	L.S.	20.28	2	40.56
	TOTAL				2675.81 W
	Add 1 % Water charges on "W-A"		54.86		0.55
	TOTAL				2676.36 X
	Add GST (multiplying factor 0.1405) on "X-A"		55.41		7.78
	TOTAL				2684.15 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		63.19		9.48
	Total				2693.63 Z
	Add Cess @ 1% on "Z-A"		72.67		0.73
	Cost of one no				2694.35
	Say				2694.35

19.26.4 Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35

Details of cost for one manhole

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Dismantling of C.C slab of 1:2:4 (1 cement : 2 coarse sand : 4 aggregate stone 20 mm nominal size) = $3.14/4 \times (0.985)^2 \times 0.15 = 0.114$ cum Less cover = $3.14/4 \times (0.90)^2 \times 0.15 = (-) 0.095$ cum Net qty = 0.019 cum Say 0.02 cum				
15.3	Rate as per item no. 15.3 of SH : Dismantling and demolishing	cum	0.02	1465.35	29.31 A
9999	Removal of R.C.C cover and frame	L.S.	8.06	2	16.12
	C.C work 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) $3.14/4 \times (0.985)^2 \times 0.15 = 0.114$ cum Less portion cover with frame = $3.14/4 \times (0.90)^2 \times 0.15 = (-) 0.095$ cum Net qty = 0.019 cum Say 0.02 cum				
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work	cum	0.02	7107.10	142.14 A
9999	Sundries	L.S.	20.28	2	40.56
	TOTAL				228.13 W
	Add 1 % Water charges on "W-A"		56.68		0.57
	TOTAL				228.70 X
	Add GST (multiplying factor 0.1405) on "X-A"		57.25		8.04
	TOTAL				236.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		65.29		9.79
	Total				246.53 Z
	Add Cess @ 1% on "Z-A"		75.08		0.75
	Cost of one no				247.28
	Say				247.30
19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				
19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	MATERIAL				
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) $1.11 \text{m} \times 1.06 \text{m} \times 0.15 \text{m} = 0.176$ cum Say 0.18 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.18	4390.60	790.31 A
	Brick work in bricks of clas designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) $2.82 \text{m} \times 0.23 \text{m} \times 0.45 \text{m} = 0.29$ cum				
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.29	5528.25	1603.19 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement Wall : 1.90x0.45 m = 0.855 sqm Bed : 0.45x0.50 m = 0.225 sqm Total= 1.080 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	1.08	235.50	254.34 A
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)2.82x0.23x0.15 m = 0.097 cum Say 0.10 cum				
4.2.3	Rate as per item no 4.2.3 of SH : Concrete	cum	0.10	7107.10	710.71 A
	Form work 3.50x0.15 m = 0.525 sqm Say 0.53 sqm				
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	0.53	411.15	217.91 A
7380	Precast R.C.C. grating with frame 500x450 mm	each	1.00	620.00	620.00
9977	Carriage of R.C.C. grating	L.S.	7.15	2.00	14.30
9999	Fixing R.C.C. grating	L.S.	5.33	2.00	10.66
	TOTAL				4221.42 W
	Add 1 % Water charges on "W-A"	644.96			6.45
	TOTAL				4227.87 X
	Add GST (multiplying factor 0.1405) on "X-A"	651.41			91.52
	TOTAL				4319.39 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	742.93			111.44
	Total				4430.83 Z
	Add Cess @ 1% on "Z-A"	854.37			8.54
	Cost of one chamber				4439.38
	Say				4439.40
19.28	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :				
19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.06mx1.06mx0.15 m= 0.17 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work	cum	0.17	4390.60	746.40 A
	Brick work in bricks of clas designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) 2.72 m x 0.23m x0.70 m = 0.438 cum Deduct opening 0.45x0.23x0.10 m = 0.01 cum Block 3x(0.075) ³ = 0.001 cum Total deduction = 0.011 cum Net qty. = 0.438 (-) 0.011 = 0.427 cum Say 0.43 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement Wall : 1.80x0.70 m = 1.26 sqm Bed : 0.45x0.45 m = 0.202 sqm Top : 0.45x0.20 m = 0.09 sqm Sides : 2x0.20x0.10 m = 0.04 sqm Total= 1.592 sqm Deduct opening 0.45x0.10 m = 0.045 sqm Net qty. = 1.592 (-) 0.045 = 1.547 cum Say 1.55 cum	cum	0.43	5528.25	2377.15 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	sqm	1.55	235.50	365.02 A
4.2.3	Block = $3 \times (0.75)^3 = 0.001$ cum Rate as per item no 4.2.3 of SH : Concrete R.C.C. 1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) 0.91x0.91x0.075 m = 0.062 cum Say 0.06 cum	cum	0.001	7107.10	7.11 A
5.3	Rate as per item no. 5.3 of SH : RCC work Less labour for not lifting the materials upto floor five level	cum	0.06	7835.75	470.14 A
0018	Coolie Form work 0.45x0.45 m = 0.202 sqm 0.45x0.20 m = 0.09 sqm outside slab : 3.40x0.075 m = 0.255 sqm Total= 0.547 sqm Say 0.55 sqm	day	-0.113	320.83	-36.25
5.9.2	Rate as per item no 5.9.2 of SH : RCC Mild steel reinforcement for R.C.C work 0.062 cum @ 80 kg/cum = 4.96 kg	sqm	0.55	411.15	226.13 A
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	4.96	75.40	373.98 A
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	1.00	235.00	235.00
9999	Fixing and carriage of R.C.C. grating	L.S.	20.67	2.00	41.34
	TOTAL				4806.03 W
	Add 1 % Water charges on "W-A"	240.09			2.40
	TOTAL				4808.43 X
	Add GST (multiplying factor 0.1405) on "X-A"	242.49			34.07
	TOTAL				4842.50 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	276.56			41.48
	Total				4883.98 Z
	Add Cess @ 1% on "Z-A"	318.04			3.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of one chamber				4887.16
	Say				4887.15
19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.71mx1.11mx0.15 m = 0.285 cum Say 0.29 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Brick work in bricks of clas designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) 1.91 m x 0.23m x0.45 m = 0.199 cum 2.20mx0.23mx0.70 m = 0.354 cum Total= 0.553 cum Deduct lintel portion 2x0.23x0.20x0.20 m = (-) 0.018 cum Nte Qty= 0.0535 cum Say 0.54 cum	cum	0.29	4390.60	1273.27 A
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement Wall : 1.80x0.70 m = 1.26 sqm Wall : 1.40x0.45 m = 0.63 sqm Bed : 1.10x0.50 m = 0.55 sqm Total= 2.44 sqm Deduct 2x0.20x0.20 m = (-) 0.08 sqm Net Qty= 2.36 sqm	cum	0.54	5528.25	2985.26 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) Block = 1.92x0.23x0.15 = 0.07 cum	sqm	2.36	235.50	555.77 A
4.2.3	Rate as per item no 4.2.3 of SH : Concrete Work R.C.C. 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) 0.88x0.96x0.075 m = 0.063 cum Say 0.06 cum	cum	0.07	7107.10	497.50 A
5.3	Rate as per item no. 5.3 of SH : RCC work Less labour for not lifting the materials upto floor five level	cum	0.06	7835.75	470.14 A
0018	Coolie R.C.C. 1:1.5:4 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) in lintels 1x0.96x0.20x0.20 m = 0.04 cum	day	-0.113	320.83	-36.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.13	Rate as per item no. 5.13 of SH : RCC work Form work Slab bottom 0.50x0.65 m = 0.325 sqm Outer periphery 3.50x0.075 m = 0.263 sqm 2.20x0.15 m = 0.330 sqm = 0.918 sqm Say 0.91 sqm	cum	0.04	10111.35	404.45 A
5.9.2	Rate as per item no 5.9.2 of SH : RCC Mild steel reinforcement for R.C.C work (0.06+0.04) = 0.10 cum @ 80 kg/cum = 8.00 kg	sqm	0.91	411.15	374.15 A
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	8.00	75.40	603.23 A
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	1.00	620.00	620.00
9977	Carriage of R.C.C. grating	L.S.	7.15	2.00	14.30
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	1.00	235.00	235.00
9999	Labour for fixing precast R.C.C. grating and frame	L.S.	34.06	2.00	68.12
	TOTAL				8064.95 W
	Add 1 % Water charges on "W-A"	901.17			9.01
	TOTAL				8073.96 X
	Add GST (multiplying factor 0.1405) on "X-A"	910.18			127.88
	TOTAL				8201.84 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1038.06			155.71
	Total				8357.55 Z
	Add Cess @ 1% on "Z-A"	1193.77			11.94
	Cost of one chamber				8369.49
	Say				8369.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 coarse sand) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:				
19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :				
19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one chamber				
	Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) 1.22mx1.065mx0.15 m= 0.195 cum Say .20 cum				
4.1.11	Rate as per item no 4.1.11 of SH : Concrete Work Brick work in bricks of clas designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) 3.05 m x 0.23m x0.30 m = 0.210 cum Less pipe 2x3.14/4x(0.10) ² x0.23 m = (-) 0.004 cum Net Qty= 0.206 cum Say 0.21 cum	cum	0.20	4390.60	878.12 A
6.1.1	Rate as per item no 6.1.1 of SH : Brick Work 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement Wall : 2.13x0.30 m = 0.639 sqm Bed : 0.61x0.455 m = 0.278 sqm Total= 0.917 sqm Less pipe 2x3.14/4x(0.10) ² = (-) 0.016 sqm Net Qty= 0.901 sqm Say 0.90 sqm	cum	0.21	5528.25	1160.93 A
13.9.1	Rate as per item no 13.9.1 of SH : Finishing Cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) 3.05x0.23x0.15 = 0.105 cum say 0.11 cum	sqm	0.90	235.50	211.95 A
5.3	Rate as per item no 5.3 of (SH : RCC) Form work Outer periphery 3.73x0.15 m = 0.56 sqm	cum	0.11	7835.75	861.93 A
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	0.56	411.15	230.25 A
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1.00	1400.00	1400.00
9977	Carriage of C.I.cover and frame	L.S.	7.15	2.00	14.30
9999	Painting of C.I. Cover and frame with coal tar	L.S.	7.15	2.00	14.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				4798.82 W
	Add 1 % Water charges on "W-A"	1455.64			14.56
	TOTAL				4813.37 X
	Add GST (multiplying factor 0.1405) on "X-A"	1470.20			206.56
	TOTAL				5019.94 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1676.76			251.51
	Total				5271.45 Z
	Add Cess @ 1% on "Z-A"	1928.27			19.28
	Cost of one chamber				5290.73
	Say				5290.75

19.30.2 Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :

19.30.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost of one no.

Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)

1.31mx1.11mx0.15 m= 0.22 cum

4.1.11 Rate as per item no 4.1.11 of SH : Concrete Work cum 0.22 4390.60 965.93 A

Brick work in bricks of clas designation 75 in cement mortar 1:4 (1 cement : 4 fine sand)

3.32 m x 0.23m x0.30 m = 0.229 cum Less pipe

3x3.14x(0.10)²x0.23 m = (-) 0.005 cum

Net Qty= 0.224 cum Say 0.22 cum

6.1.1 Rate as per item no 6.1.1 of SH : Brick Work cum 0.22 5528.25 1216.22 A

12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement

Wall : 2.40x0.30 m = 0.72 sqm

Bed : 0.70x0.50 m = 0.35 sqm

= 1.07 sqm

Less pipe 3x3.14/4x(0.10)² = (-) 0.02 sqm

Net Qty= 1.05 sqm

13.9.1 Rate as per item no 13.9.1 of SH : Finishing R.C.C sqm 1.05 235.50 247.27 A

1:1.5:3 (1 cement : 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)

1.16x0.96x0.15 = 0.167 cum

Deduct cover

0.61x0.45x0.15 m = (-) 0.042 cum

Net Qty= 0.125 cum Say 0.13 cum

5.3 Rate as per item no. 5.3 of SH : RCC work cum 0.13 7835.75 1018.65 A

Form work

Inside area of chamber : 0.70x0.50 m

= 0.35 sqm

Outer periphery 4.00x0.15 m = 0.60 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 0.95 sqm Deduct cover : 0.61x0.455 m = (-) 0.278 sqm = 0.672 sqm Say 0.67 sqm				
5.9.2	Rate as per item no 5.9.2 of SH : RCC	sqm	0.67	411.15	275.47 A
	Less labour for not lifting the materials upto floor				
0018	Coolie	day	-0.24	320.83	-77.00
	M.S.reinforcement for slab				
	0.13 cum @ 48.06 kg/cum = 6.25 kg				
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	6.25	75.40	471.28 A
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1.00	1400	1400.00
9977	Carriage of C.I. Cover and frame	L.S.	7.15	2	14.30
9999	Painting of C.I. Cover and frame with coal tar	L.S.	7.15	2	14.30
9999	Sundries	L.S.	13.52	2	27.04
	TOTAL				5573.46 W
	Add 1 % Water charges on "W-A"	1378.64			13.79
	TOTAL				5587.24 X
	Add GST (multiplying factor 0.1405) on "X-A"	1392.43			195.64
	TOTAL				5782.88 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1588.06			238.21
	Total				6021.09 Z
	Add Cess @ 1% on "Z-A"	1826.27			18.26
	Cost of one chamber				6039.35
	Say				6039.35

19.30.3 Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :

19.30.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost of one chamber

Cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)

1.46mx1.21mx0.15 m= 0.26 cum

4.1.11 Rate as per item no 4.1.11 of SH : Concrete Work cum 0.26 4390.60 1141.56 A

Brick work in bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand)

3.82 m x 0.23m x 0.30 m = 0.26 cum

Less pipe 5x3.14x(0.10)²x0.23 m = (-) 0.009 cum

Net Qty= 0.255 cum Say 0.26 cum

6.1.1 Rate as per item no 6.1.1 of SH : Brick Work cum 0.26 5528.25 1437.35 A

12 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement

Wall : 2.90x0.30 m = 0.87 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Bed : 0.85x0.60 m = 0.51 sqm Total= 1.38 sqm Less pipe 5x3.14/4x(0.10) ² = (-) 0.04 sqm Net Qty= 1.34 sqm				
13.9.1	Rate as per item no 13.9.1 of SH : Finishing R.C.C 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) 1.31x1.06x0.15 = 0.208 cum Deduct cover 0.61x0.455x0.15 m = (-) 0.042 cum Net Qty= 0.166 cum Say 0.17 cum	sqm	1.34	235.50	315.57 A
5.3	Rate as per item no. 5.3 of SH : RCC work Less labour for not lifting the materilas upto floor five level	cum	0.17	7835.75	1332.08 A
0018	Coolie Form work Inside area of chamber : 0.85x0.60 m = 0.511 sqm Outer periphery 4.50x0.15 m = 0.675 sqm Total= 1.186 sqm Deduct cover : 0.61x0.455 m = (-) 0.278 sqm Net Qty= 0.908 sqm Say 0.91 sqm	day	-0.32	320.83	-102.67
5.9.2	Rate as per item no 5.9.2 of SH : RCC M.S.reinforcement for slab for 0.17 cum @ 48.06 kg/cum = 48.06x0.17cum = 8.17 kg	sqm	0.91	411.15	374.15 A
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	8.17	75.40	616.05 A
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1.00	1400.00	1400.00
9977	Carriage of C.I. Cover and frame	L.S.	7.15	2.00	14.30
9999	Painting of C.I. Cover and frame with coal tar	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				6569.72 W
	Add 1 % Water charges on "W-A"	1352.97			13.53
	TOTAL				6583.25 X
	Add GST (multiplying factor 0.1405) on "X-A"	1366.50			191.99
	TOTAL				6775.24 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1558.50			233.77
	Total				7009.02 Z
	Add Cess @ 1% on "Z-A"	1792.27			17.92
	Cost of one chamber				7026.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				7026.95

19.31 Extra for depth beyond 45 cm of brick masonry chamber :

19.31.1 For 455x610 mm size

19.31.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for one metre

Brick work in bricks of class designation 7.5 in
cement mortar 1:4 (1 cement : 4 coarse sand)
3.05 m x 0.23m x 1.00 m = 0.70 cum

6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.70	5528.25	3869.78

12 mm cement plaster 1:3 (1 cement : 3 coarse
sand finished with floating coat of neat cement Wall :
2.13x1.00 m = 2.13 sqm

13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	2.13	235.50	501.61

TOTAL					4371.39

Cost per metre					4371.39

Say					4371.40

19.31.2 For 500x700 mm size

19.31.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for one metre

Brick work in bricks of class designation 7.5 in
cement mortar 1:5 (1 cement :
5 fine sand)
3.32 m x 0.23m x 1.00 m = 0.76 cum

6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.76	5528.25	4201.47

12 mm cement plaster 1:3 (1 cement : 3 coarse
sand finished with floating coat of neat cement Wall
: 2.40x1.00 m = 2.40 sqm

13.9.1	Rate as per item no 13.9.1 of SH : Finishing	sqm	2.40	235.50	565.19

TOTAL					4766.67

Cost per metre					4766.67

Say					4766.65

19.31.3 For 600x850 mm size

19.31.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

Details of cost for one metre

Brick work in bricks of class designation 7.5 in
cement mortar 1:4 (1 cement: 4 coarse sand)
3.82 m x 0.23m x 1.00 m = 0.88 cum

6.1.1	Rate as per item no 6.1.1 of SH : Brick Work	cum	0.88	5528.25	4864.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9.1	12 mm cement plaster 1:3 (1 cement : 3 coarse sand finished with floating coat of neat cementWall : 2.90x1.00 m = 2.90 sqm Rate as per item no 13.9.1 of SH : Finishing	sqm	2.90	235.50	682.94
	TOTAL				5547.80
	Cost per metre				5547.80
	Say				5547.80
19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
	Details of cost for one soak pit Earth work in excavation including disposal of surplus earth $3.14/4 \times (2.5)^2 \times 3\text{m} = 14.73\text{ cum}$ Rate as per item no. 2.8.1 of SH: Earth work	cum	14.73	171.40	2524.72 A
2.26.1	Rate as per item no. 2.26.1 of SH : Earth work $= 3.14/4 \times (2.5)^2 \times 1.5\text{ m} = 7.37\text{ cum}$ 2nd class bricks perimetre = $4 \times 0.35 = 1.40\text{ m}$ Area = $1.40 \times 2.925\text{ m} = 4.1\text{ sqm}$ Number of brick = $4.1 \times 487 \times 0.066 = 131.78$ Wastage 10% = 13.718 Total= 144.96 Say 145 numbers	cum	7.37	51.50	379.56 A
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Brick bats = $3.14/4 \times (1.2)^2 \times 2.925\text{m} = 3.33\text{ cum}$ Deduct = $0.45 \times 0.45 \times 2.925\text{ m} = 0.59\text{ cum}$ Net qty= 2.74 cum	1000 Nos	0.145	4500.00	652.50
362	Brick bats Brick aggregate 50 to 80 mm nominal size $= 3.14 \times 1.50 \times 0.03 \times 2.925\text{ m} = 4.13\text{ cum}$	cum	2.74	450.00	1233.00
285	Brick Aggregate (Single size) : 63 mm nominal size Brick aggregate 40 mm nominal size $= 3.14 \times 2.15 \times 0.35 \times 2.925\text{ m} = 6.91\text{ cum}$	cum	4.13	650.00	2684.50
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	6.91	650.00	4491.50
1854	Stoneware pipes grade A (60 cm long) 100 mm dia Carriage of brick bats and aggregate	each	3.00	55.00	165.00
2260	Carriage of Brick aggregate	cum	13.78	115.36	1589.64
2201	Carriage of Bricks	1000	0.145	283.01	41.04
9999	Single matting 2.5x2.5 m = 6.25 sqm Precast R.C.C.slabs 7.5 cm thick in cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) $0.45 \times 0.45 \times 0.075\text{ m} = 0.02\text{ cum}$	L.S.	112.14	2.00	224.28
5.12	Rate as per item no 5.12 of SH : RCC	cum	0.02	7497.75	149.95 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Reinforcement @ 80 kg/cum = 0.02x80 =1.6 kg				
5.22.1	Rate as per item no. 5.22.1 of SH : RCC work	kg	1.60	75.40	120.64 A
	2nd class brick edging laid length wise with half brick depth 3.14x2.6 m =8.17 m				
16.8.1	Rate as per item no. 16.8.1 of SH : Road work	metre	8.17	40.90	334.15 A
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	3.00	320.83	962.49
0018	Coolie	day	3.00	320.83	962.49
	TOTAL				16940.72 W
	Add 1 % Water charges on "W-A"	13431.69			134.32
	TOTAL				17075.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	13566.01			1906.02
	TOTAL				18981.06 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	15472.03			2320.80
	Total				21301.86 Z
	Add Cess @ 1% on "Z-A"	17792.84			177.93
	Cost of one soak pit				21479.79
	Say				21479.80
19.33	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.				
	Details of cost for one soak pit				
	Earth work in excavation including disposal of surplus earth 1.2x1.2x1.2m = 1.73 cum				
2.8.1	(Rate as per item no. 2.8.1 of	cum	1.73	171.40	296.53 A
	SH: Earth work)				
362	Brick bats	cum	1.73	450.00	778.50
	1.2x1.2x1.2 = 1.73 cum				
2260	Carriage of Brick aggregate	cum	1.73	115.36	199.57
16.8.1	Rate as per item no. 16.8.1 of	metre	5.20	40.90	212.68 A
	SH : Road work				
	Second class brick edging laid length wise with half brick depth				
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	2.00	55.00	110.00
9999	Sundries	L.S.	25.84	2.00	51.68
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For filling brick bats				
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries	L.S.	13.52	2.00	27.04
	TOTAL				1836.42 W
	Add 1 % Water charges on "W-A"	1327.21			13.27
	TOTAL				1849.69 X
	Add GST (multiplying factor 0.1405) on "X-A"	1340.48			188.34
	TOTAL				2038.02 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1528.81			229.32
	Total				2267.35 Z
	Add Cess @ 1% on "Z-A"	1758.14			17.58
	Cost of one soak pit				2284.93
	Say				2284.95
19.34	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
19.34.1	100 mm dia				
	Details of cost of one no.				
	MATERIAL				
7128	S.W. intercepting trap 100 mm dia	each	1.00	185.00	185.00
9977	Carriage of trap	L.S.	1.04	2.00	2.08
367	Portland Cement (OPC-43 grade)	tonne	0.0013	4940.00	6.42
2209	Carriage of Cement	tonne	0.0013	94.34	0.12
983	Fine sand	cum	0.001	900.00	0.90
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.001	106.13	0.11
1881	Spun yarn	kilogram	0.09	50.00	4.50
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.02	476.00	9.52
0024	Mason (brick layer) 2nd class	day	0.02	374.50	7.49
0017	Beldar	day	0.06	320.83	19.25
0011	Bhisti	day	0.02	320.83	6.42
	TOTAL				241.81 W
	Add 1 % Water charges on "W"				2.42
	TOTAL				244.23 X
	Add GST (multiplying factor 0.1405) on "X"				34.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				278.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				41.78
	Total				320.32 Z
	Add Cess @ 1% on "Z"				3.20
	Cost of one no.				323.52
	Say				323.50
19.34.2	150 mm dia				
	Details of cost of one no.				
	MATERIAL				
7129	S.W. intercepting trap 150 mm dia	each	1.00	240.00	240.00
9977	Carriage of trap	L.S.	2.08	2.00	4.16
367	Portland Cement (OPC-43 grade)	tonne	0.0019	4940.00	9.39
2209	Carriage of Cement	tonne	0.0019	94.34	0.18
983	Fine sand	cum	0.0014	900.00	1.26
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.0014	106.13	0.15
1881	Spun yarn	kilogram	0.18	50.00	9.00
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.03	476.00	14.28
0024	Mason (brick layer) 2nd class	day	0.03	374.50	11.24
0017	Beldar	day	0.08	320.83	25.67
0011	Bhisti	day	0.03	320.83	9.62
	TOTAL				324.94 W
	Add 1 % Water charges on "W"				3.25
	TOTAL				328.19 X
	Add GST (multiplying factor 0.1405) on "X"				46.11
	TOTAL				374.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				56.15
	Total				430.45 Z
	Add Cess @ 1% on "Z"				4.30
	Cost of one no.				434.75
	Say				434.75
19.35	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
19.35.1	450 mm dia RCC pipes.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail for 10 metre				
	MATERIALS :				
1728	RCC pipe 450 mm dia NP-3 spigot	metre	10.00	1496.00	14960.00
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100	0.10	2577.54	257.75
367	Portland Cement (OPC-43 grade)	metre tonne	0.012	4940.00	59.28
2209	Carriage of Cement	tonne	0.012	94.34	1.13
983	Fine sand	cum	0.017	900.00	15.30
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.017	106.13	1.80
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.375	476.00	178.50
0024	Mason (brick layer) 2nd class	day	0.375	374.50	140.44
0017	Beldar	day	2.41	320.83	773.20
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				16493.28 W
	Add 1 % Water charges on "W"				164.93
	TOTAL				16658.21 X
	Add GST (multiplying factor 0.1405) on "X"				2340.48
	TOTAL				18998.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				2849.80
	Total				21848.50 Z
	Add Cess @ 1% on "Z"				218.48
	Detail of cost for 10 metre				22066.98
	Rate per metre				2206.70
	Say				2206.70

19.35.2 600 mm dia RCC pipes.

Detail for 10 metre

MATERIALS :

1729	RCC pipe 600 mm dia NP-3 spigot	metre	10.00	1995.00	19950.00
2303	Carriage of R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	0.10	3866.30	386.63
367	Portland Cement (OPC-43 grade)	tonne	0.016	4940.00	79.04
2209	Carriage of Cement	tonne	0.016	94.34	1.51
983	Fine sand	cum	0.022	900.00	19.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.022	106.13	2.33
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.46	476.00	218.96
0024	Mason (brick layer) 2nd class	day	0.46	374.50	172.27
0017	Beldar	day	1.83	320.83	587.12
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				21523.54 W
	Add 1 % Water charges on "W"				215.24
	TOTAL				21738.77 X
	Add GST (multiplying factor 0.1405) on "X"				3054.30
	TOTAL				24793.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				3718.96
	Total				28512.03 Z
	Add Cess @ 1% on "Z"				285.12
	Detail of cost for 10 metre				28797.15
	Rate per metre				2879.72
	Say				2879.70

19.35.3 900 mm dia RCC pipes.

	Detail for 10 metre				
	MATERIALS :				
1730	RCC pipe 900 mm dia NP-3 spigot	metre	10.00	3150.00	31500.00
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	0.10	5799.46	579.95
367	Portland Cement (OPC-43 grade)	tonne	0.025	4940.00	123.50
2209	Carriage of Cement	tonne	0.025	94.34	2.36
983	Fine sand	cum	0.033	900.00	29.70
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.033	106.13	3.50
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.625	476.00	297.50
0024	Mason (brick layer) 2nd class	day	0.625	374.50	234.06
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				33893.47 W
	Add 1 % Water charges on "W"				338.93
	TOTAL				34232.41 X
	Add GST (multiplying factor 0.1405) on "X"				4809.65
	TOTAL				39042.06 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				5856.31
	Total				44898.37 Z
	Add Cess @ 1% on "Z"				448.98
	Detail of cost for 10 metre				45347.36
	Rate per metre				4534.74
	Say				4534.75
19.35.4	1000 mm dia RCC pipes. (Laying by mannual/ machanical means)				
	Detail for 10 metre				
	MATERIALS :				
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	10.00	3885.00	38850.00
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	0.10	7732.61	773.26
367	Portland Cement (OPC-43 grade)	tonne	0.028	4940.00	138.32
2209	Carriage of Cement	tonne	0.028	94.34	2.64
983	Fine sand	cum	0.037	900.00	33.30
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.037	106.13	3.93
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.68	476.00	323.68
0024	Mason (brick layer) 2nd class	day	0.68	374.50	254.66
0017	Beldar	day	4.33	320.83	1389.19
0011	Bhisti	day	0.5	320.83	160.42
	TOTAL				41929.40 W
	Add 1 % Water charges on "W"				419.29
	TOTAL				42348.69 X
	Add GST (multiplying factor 0.1405) on "X"				5949.99
	TOTAL				48298.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				7244.80
	Total				55543.49 Z
	Add Cess @ 1% on "Z"				555.43
	Detail of cost for 10 metre				56098.92
	Rate per metre				5609.89
	Say				5609.90
19.35.5	1200 mm dia RCC pipes. (Laying by mannual/ machanical means)				
	Detail for 10 metre				
	MATERIALS :				
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	10.00	5040.00	50400.00
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	0.10	7732.61	773.26
367	Portland Cement (OPC-43 grade)	tonne	0.034	4940.00	167.96
2209	Carriage of Cement	tonne	0.034	94.34	3.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
983	Fine sand	cum	0.046	900.00	41.40
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.046	106.13	4.88
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.795	476.00	378.42
0024	Mason (brick layer) 2nd class	day	0.795	374.50	297.73
0017	Beldar	day	8.67	320.83	2781.60
0011	Bhisti	day	0.67	320.83	214.96
	TOTAL				55063.41 W
	Add 1 % Water charges on "W"				550.63
	TOTAL				55614.04 X
	Add GST (multiplying factor 0.1405) on "X"				7813.77
	TOTAL				63427.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				9514.17
	Total				72941.99 Z
	Add Cess @ 1% on "Z"				729.42
	Detail of cost for 10 metre				73671.41
	Rate per metre				7367.14
	Say				7367.15
19.35.6	1800 mm dia RCC pipes. (Laying by manual/ machanical means)				
	Detail for 10 metre				
	MATERIALS :				
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	10.00	9450.00	94500.00
2336	Carriage of RCC pipe above 1200 mm dia and upto 1800 mm dia	100 metre	0.10	7732.61	773.26
367	Portland Cement (OPC-43 grade)	tonne	0.049	4940.00	242.06
2209	Carriage of Cement	tonne	0.049	94.34	4.62
983	Fine sand	cum	0.055	900.00	49.50
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.055	106.13	5.84
	LABOUR				
0023	Mason (brick layer) 1st class	day	1.15	476.00	547.40
0024	Mason (brick layer) 2nd class	day	1.15	374.50	430.68
0017	Beldar	day	13.00	320.83	4170.79
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				101044.98 W
	Add 1 % Water charges on "W"				1010.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				102055.43 X
	Add GST (multiplying factor 0.1405) on "X"				14338.79
	TOTAL				116394.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				17459.13
	Total				133853.34 Z
	Add Cess @ 1% on "Z"				1338.53
	Detail of cost for 10 metre				135191.88
	Rate per metre				13519.19
	Say				13519.20
19.36	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
19.36.1	450 mm dia RCC pipes.				
	Detail for 10 metre				
	MATERIALS :				
1734	RCC pipe 450 mm dia NP-4 spigot	metre	10.00	1733.00	17330.00
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0.10	2577.54	257.75
367	Portland Cement (OPC-43 grade)	tonne	0.012	4940.00	59.28
2209	Carriage of Cement	tonne	0.012	94.34	1.13
983	Fine sand	cum	0.017	900.00	15.30
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.017	106.13	1.80
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.375	476.00	178.50
0024	Mason (brick layer) 2nd class	day	0.375	374.50	140.44
0017	Beldar	day	2.41	320.83	773.20
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				18863.28 W
	Add 1 % Water charges on "W"				188.63
	TOTAL				19051.91 X
	Add GST (multiplying factor 0.1405) on "X"				2676.79
	TOTAL				21728.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				3259.31
	Total				24988.01 Z
	Add Cess @ 1% on "Z"				249.88
	Detail of cost for 10 metre				25237.89

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate per metre				2523.79
	Say				2523.80
19.36.2	600 mm dia RCC pipes.				
	Detail for 10 metre				
	MATERIALS :				
1735	RCC pipe 600 mm dia pipe NP-4 spigot	metre	10.00	2310.00	23100.00
2303	Carriage of R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	0.10	3866.30	386.63
367	Portland Cement (OPC-43 grade)	tonne	0.016	4940.00	79.04
2209	Carriage of Cement	tonne	0.016	94.34	1.51
983	Fine sand	cum	0.022	900.00	19.80
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.022	106.13	2.33
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.46	476.00	218.96
0024	Mason (brick layer) 2nd class	day	0.46	374.50	172.27
0017	Beldar	day	1.83	320.83	587.12
0011	Bhisti	day	0.33	320.83	105.87
	TOTAL				24673.54 W
	Add 1 % Water charges on "W"				246.74
	TOTAL				24920.27 X
	Add GST (multiplying factor 0.1405) on "X"				3501.30
	TOTAL				28421.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				4263.24
	Total				32684.81 Z
	Add Cess @ 1% on "Z"				326.85
	Detail of cost for 10 metre				33011.65
	Rate per metre				3301.17
	Say				3301.15

19.36.3 900 mm dia RCC pipes.

Detail for 10 metre

MATERIALS :

1736	RCC pipe 900 mm dia pipe NP-4 spigot	metre	10.00	4494.00	44940.00
2331	R.C.C. pipes 900 mm dia	100 metre	0.10	5799.46	579.95
367	Portland Cement (OPC-43 grade)	tonne	0.025	4940.00	123.50
2209	Carriage of Cement	tonne	0.025	94.34	2.36
983	Fine sand	cum	0.033	900.00	29.70
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.033	106.13	3.50
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.625	476.00	297.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0024	Mason (brick layer) 2nd class	day	0.625	374.50	234.06
0017	Beldar	day	3.00	320.83	962.49
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				47333.47 W
	Add 1 % Water charges on "W"				473.33
	TOTAL				47806.81 X
	Add GST (multiplying factor 0.1405) on "X"				6716.86
	TOTAL				54523.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				8178.55
	Total				62702.22 Z
	Add Cess @ 1% on "Z"				627.02
	Detail of cost for 10 metre				63329.24
	Rate per metre				6332.92
	Say				6332.90

19.36.4 1000 mm dia RCC pipes.(Laying by mannual/ machanical means)

	Detail for 10 metre				
	MATERIALS :				
1737	RCC pipe 1000 mm dia pipe NP-4 spigot	metre	10.00	5565.00	55650.00
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	0.10	7732.61	773.26
367	Portland Cement (OPC-43 grade)	tonne	0.028	4940.00	138.32
2209	Carriage of Cement	tonne	0.028	94.34	2.64
983	Fine sand	cum	0.037	900.00	33.30
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.037	106.13	3.93
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.68	476.00	323.68
0024	Mason (brick layer) 2nd class	day	0.68	374.50	254.66
0017	Beldar	day	4.33	320.83	1389.19
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				58729.40 W
	Add 1 % Water charges on "W"				587.29
	TOTAL				59316.69 X
	Add GST (multiplying factor 0.1405) on "X"				8334.00
	TOTAL				67650.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				10147.60
	Total				77798.29 Z
	Add Cess @ 1% on "Z"				777.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 10 metre				78576.27
	Rate per metre				7857.63
	Say				7857.65
19.36.5	1200 mm dia RCC pipes. (Laying by mannual/ machanical means)				
	Detail for 10 metre				
	MATERIALS :				
1738	RCC pipe 1200 mm dia pipe NP-4 spigot	metre	10.000	6510.00	65100.00
2334	Carriage of R.C.C. pipes 1200 mm dia	100	0.100	7732.61	773.26
367	Portland Cement (OPC-43 grade)	metre tonne	0.034	4940.00	167.96
2209	Carriage of Cement	tonne	0.034	94.34	3.21
983	Fine sand	cum	0.046	900.00	41.40
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand)	cum	0.046	106.13	4.88
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.795	476.00	378.42
0024	Mason (brick layer) 2nd class	day	0.795	374.50	297.73
0017	Beldar	day	8.670	320.83	2781.60
0011	Bhisti	day	0.670	320.83	214.96
	TOTAL				69763.41 W
	Add 1 % Water charges on "W"				697.63
	TOTAL				70461.04 X
	Add GST (multiplying factor 0.1405) on "X"				9899.78
	TOTAL				80360.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				12054.12
	Total				92414.94 Z
	Add Cess @ 1% on "Z"				924.15
	Detail of cost for 10 metre				93339.09
	Rate per metre				9333.91
	Say				9333.90

19.36.6 1800 mm dia RCC pipes. (Laying by mannual/ machanical means)

Detail for 10 metre

MATERIALS :

1739	RCC pipe 1800 mm dia pipe NP-4 spigot	metre	10.00	13650.00	136500.00
2336	RCC pipe above 1200 mm dia and upto 1800 mm	100	0.10	7732.61	773.26
367	Portland Cement (OPC-43 grade)	tonne	0.049	4940.00	242.06

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of Cement	tonne	0.049	94.34	4.62
983	Fine sand	cum	0.055	900.00	49.50
2261	Carriage of Fine sand (1 part badarpur sand : 2 parts Sand) LABOUR	cum	0.055	106.13	5.84
0023	Mason (brick layer) 1st class	day	1.15	476.00	547.40
0017	Beldar	day	13.00	320.83	4170.79
0011	Bhisti	day	1.00	320.83	320.83
	TOTAL				142614.30 W
	Add 1 % Water charges on "W"				1426.14
	TOTAL				144040.44 X
	Add GST (multiplying factor 0.1405) on "X"				20237.68
	TOTAL				164278.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				24641.72
	Total				188919.84 Z
	Add Cess @ 1% on "Z"				1889.20
	Detail of cost for 10 metre				190809.04
	Rate per metre				19080.90
	Say				19080.90

SUB HEAD : 20.0

PILE WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.1	Providing, driving with hydraulic piling rigs with power units and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) :				
20.1.1	400 mm dia piles				
	Details of cost for 20 m length of pile				
	MATERIAL				
	Concrete - $3.14/4 \times 0.40^2 \times 20 = 2.51$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	2.51	6934.90	17406.60 A
9999	Sundries	L.S.	521.08	2.00	1042.16
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile @ 35 kg per pile	kilogram	35.00	43.00	1505.00
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.36	30000.00	10800.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				35453.50 W
	Add 1 % Water charges on "W-A"	18046.90			180.47
	TOTAL				35633.97 X
	Add GST (multiplying factor 0.1405) on "X-A"	18227.37			2560.95
	TOTAL				38194.92 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	20788.31			3118.25
	Total				41313.16 Z
	Add Cess @ 1% on "Z-A"	23906.56			239.07
	Cost of 20 metre pile				41552.23
	Cost of 1 metre pile				2077.61
	Say				2077.60
20.1.2	450 mm dia piles				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20 m length of pile				
	MATERIAL				
	Concrete $-3.14/4 \times 0.45^2 \times 20 = 3.18$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.18	6934.90	22052.99 A
9999	Sundries	L.S.	392.7	2.00	785.40
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile @ 35 kg per pile	kilogram	35.00	43.00	1505.00
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.48	30000.00	14400.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				43443.13 W
	Add 1 % Water charges on "W-A"	21390.14			213.90
	TOTAL				43657.03 X
	Add GST (multiplying factor 0.1405) on "X-A"	21604.04			3035.37
	TOTAL				46692.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	24639.41			3695.91
	Total				50388.31 Z
	Add Cess @ 1% on "Z-A"	28335.32			283.35
	Cost of 20 metre pile				50671.66
	Cost of 1 metre pile				2533.58
	Say				2533.60

20.1.3 500 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.50^2 \times 20 = 3.925$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.925	6934.90	27219.49 A
9999	Sundries	L.S.	530.00	2.00	1060.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7182	M.S. clamps for pile shoe of 35 kg per pile @ 35 kg per pile MACHINERY	kilogram	35.00	43.00	1505.00
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.60	30000.00	18000.00
025	Hire and running charges of light crane. LABOUR Work supervisor	day	0.06	3000.00	180.00
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				52484.23 W
	Add 1 % Water charges on "W-A"	25264.74			252.65
	TOTAL				52736.87 X
	Add GST (multiplying factor 0.1405) on "X-A"	25517.39			3585.19
	TOTAL				56322.07 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	29102.58			4365.39
	Total				60687.45 Z
	Add Cess @ 1% on "Z-A"	33467.97			334.68
	Cost of 20 metre pile				61022.13
	Cost of 1 metre pile				3051.11
	Say				3051.10

20.1.4 550 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.55^2 \times 20 = 4.75$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	4.75	6934.90	32940.78 A
9999	Sundries	L.S.	371.88	2.00	743.76
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile @ 35 kg per pile MACHINERY	kilogram	35.00	43.00	1505.00
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.60	30000.00	18000.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				57889.28 W
	Add 1 % Water charges on "W-A"	24948.50			249.49
	TOTAL				58138.77 X
	Add GST (multiplying factor 0.1405) on "X-A"	25197.99			3540.32
	TOTAL				61679.08 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	28738.30			4310.75
	Total				65989.83 Z
	Add Cess @ 1% on "Z-A"	33049.05			330.49
	Cost of 20 metre pile				66320.32
	Cost of 1 metre pile				3316.02
	Say				3316.00

20.1.5 750 mm dia piles

Details of cost for 15 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.75^2 \times 15 = 6.62$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	6.62	6934.90	45909.05 A
9999	Sundries	L.S.	573.57	2.00	1147.14
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00

@ 35 kg per pile

MACHINERY

024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.70	30000.00	21000.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00

LABOUR

Work supervisor

0030	Mistry	day	0.14	476.00	66.64
0017	Beldar	day	3.50	320.83	1122.91
	TOTAL				74770.73 W
	Add 1 % Water charges on "W-A"	28861.69			288.62
	TOTAL				75059.35 X
	Add GST (multiplying factor 0.1405) on "X-A"	29150.30			4095.62
	TOTAL				79154.97 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"		33245.92		4986.89	
	Total				84141.85	Z
	Add Cess @ 1% on "Z-A"		38232.81		382.33	
	Cost of 15 metre pile				84524.18	
	Cost of 1 metre pile				5634.95	
	Say				5634.95	
20.1.6	1000 mm dia piles					
	Details of cost for 10 m length of pile					
	MATERIAL					
	Concrete $3.14/4 \times 1.00^2 \times 10 = 7.85$ cum					
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	7.85	6934.90	54438.97	A
9999	Sundries	L.S.	897.89	2.00	1795.78	
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00	
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00	
	@ 35 kg per pile					
	MACHINERY					
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.68	30000.00	20400.00	
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00	
	LABOUR					
	Work supervisor					
0030	Mistry	day	0.16	476.00	76.16	
0017	Beldar	day	4.00	320.83	1283.32	
	TOTAL				83519.23	W
	Add 1 % Water charges on "W-A"		29080.26		290.80	
	TOTAL				83810.04	X
	Add GST (multiplying factor 0.1405) on "X-A"		29371.06		4126.63	
	TOTAL				87936.67	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		33497.70		5024.65	
	Total				92961.33	Z
	Add Cess @ 1% on "Z-A"		38522.35		385.22	
	Cost of 10 metre pile				93346.55	
	Cost of 1 metre pile				9334.65	
	Say				9334.65	
20.1.7	1200 mm dia piles					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9 m length of pile				
	MATERIAL				
	Concrete $3.14/4 \times 1.2^2 \times 10 = 10.17$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	10.17	6934.90	70527.95 A
9999	Sundries	L.S.	733.37	2.00	1466.74
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00
	@ 35 kg per pile				
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.67	30000.00	20100.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.18	476.00	85.68
0017	Beldar	day	4.50	320.83	1443.74
	TOTAL				99149.10 W
	Add 1 % Water charges on "W-A"	28621.16			286.21
	TOTAL				99435.31 X
	Add GST (multiplying factor 0.1405) on "X-A"	28907.37			4061.49
	TOTAL				103496.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	32968.85			4945.33
	Total				108442.12 Z
	Add Cess @ 1% on "Z-A"	37914.18			379.14
	Cost of 9 metre pile				108821.27
	Cost of 1 metre pile				12091.25
	Say				12091.25

20.1.8 1500 mm dia piles

Details of cost for 9 m length of pile

MATERIAL

Concrete $3.14/4 \times 1.5^2 \times 9 = 15.90$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	15.90	6934.90	110264.93 A
9999	Sundries	L.S.	1113.48	2.00	2226.96
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00
	@ 35 kg per pile				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.77	30000.00	23100.00
025	Hire and running charges of light crane.	day	0.10	3000.00	300.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.20	476.00	95.20
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				142936.24 W
	Add 1 % Water charges on "W-A"		32671.31		326.71
	TOTAL				143262.95 X
	Add GST (multiplying factor 0.1405) on "X-A"		32998.02		4636.22
	TOTAL				147899.17 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		37634.25		5645.14
	Total				153544.31 Z
	Add Cess @ 1% on "Z-A"		43279.38		432.79
	Cost of 9 metre pile				153977.10
	Cost of 1 metre pile				17108.57
	Say				17108.55

20.2 20.2 Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap).

Note: Truck Mounted rotary/TMR/Tubewell boring machine shall not be used .

20.2.1 450 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.45^2 \times 20 = 3.18$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.18	6934.90	22052.99 A
7183	Bentonite	tonne	0.25	2960.00	740.00
9999	Sundries	L.S.	230.69	2.00	461.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MACHINERY					
015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	0.94	1900.00	1786.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.38	3500.00	1330.00
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00
LABOUR					
Work supervisor					
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	2.50	320.83	802.08
TOTAL					29419.56 W
Add 1 % Water charges on "W-A"		7366.58		73.67	
TOTAL					29493.23 X
Add GST (multiplying factor 0.1405) on "X-A"		7440.24		1045.35	
TOTAL					30538.58 Y
Add 15 % Contractor's profit and overheads on "Y-A"		8485.59		1272.84	
Total					31811.42 Z
Add Cess @ 1% on "Z-A"		9758.43		97.58	
Cost of 20 metre pile					31909.00
Cost of 1 metre pile					1595.45
Say					1595.45

20.2.2 500 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.50^2 \times 20 = 3.925 \text{ cum}$

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.925	6934.90	27219.49 A
7183	Bentonite	tonne	0.28	2960.00	828.80
9999	Sundries	L.S.	87.95	2.00	175.90
MACHINERY					
015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	1.20	1900.00	2280.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.38	3500.00	1330.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	2.50	320.83	802.08
	TOTAL				34883.38 W
	Add 1 % Water charges on "W-A"	7663.90			76.64
	TOTAL				34960.02 X
	Add GST (multiplying factor 0.1405) on "X-A"	7740.53			1087.55
	TOTAL				36047.57 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8828.08			1324.21
	Total				37371.78 Z
	Add Cess @ 1% on "Z-A"	10152.29			101.52
	Cost of 20 metre pile				37473.30
	Cost of 1 metre pile				1873.67
	Say				1873.65
20.2.3	600 mm dia piles				
	Details of cost for 20 m length of pile				
	MATERIAL				
	Concrete $3.14/4 \times 0.60^2 \times 20 = 5.65$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	5.65	6934.90	39182.19 A
7183	Bentonite	tonne	0.33	2960.00	976.80
9999	Sundries	L.S.	317.43	2.00	634.86
	MACHINERY				
015	Hire and running charges of Tripod and	day	1.50	1900.00	2850.00
	Mechanical Winch machine complete with power unit and accessories				
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.38	3500.00	1330.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				48183.46 W
	Add 1 % Water charges on "W-A"	9001.27			90.01
	TOTAL				48273.47 X
	Add GST (multiplying factor 0.1405) on "X-A"	9091.28			1277.33
	TOTAL				49550.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	10368.61			1555.29
	Total				51106.09 Z
	Add Cess @ 1% on "Z-A"	11923.90			119.24
	Cost of 20 metre pile				51225.33
	Cost of 1 metre pile				2561.27
	Say				2561.25

20.2.4 750 mm dia piles

Details of cost for 15 m length of pile

MATERIAL

Concrete $3.14/4 \times 0.75^2 \times 15 = 6.62$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	6.62	6934.90	45909.05 A
7183	Bentonite	tonne	0.30	2960.00	888.00
9999	Sundries	L.S.	131.58	2.00	263.16
	MACHINERY				
015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	1.40	1900.00	2660.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.75	3500.00	2625.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.14	476.00	66.64
0017	Beldar	day	3.50	320.83	1122.91
	TOTAL				55724.75 W
	Add 1 % Water charges on "W-A"	9815.71			98.16
	TOTAL				55822.91 X
	Add GST (multiplying factor 0.1405) on "X-A"	9913.86			1392.90
	TOTAL				57215.81 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"		11306.76		1696.01
	Total				58911.82 Z
	Add Cess @ 1% on "Z-A"		13002.77		130.03
	Cost of 15 metre pile				59041.85
	Cost of 1 metre pile				3936.12
	Say				3936.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.2A	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic piling Rig all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap).				
	Note: Truck Mounted rotary/TMR/Tube well boring machine shall not be used.				
20.2A.1	600 mm dia piles				
	Details of cost for 20 m length of pile				
	MATERIAL				
	Concrete $3.14/4 \times 0.60^2 \times 20 = 5.65$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	5.65	6934.90	39182.19 A
7183	Bentonite	tonne	0.33	2960.00	976.80
9999	Sundries	L.S.	317.43	2.00	634.86
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.75	30000.00	22500.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.38	3500.00	1330.00
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				67833.46 W
	Add 1 % Water charges on "W-A"	28651.27			286.51
	TOTAL				68119.97 X
	Add GST (multiplying factor 0.1405) on "X-A"	28937.78			4065.76
	TOTAL				72185.73 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	33003.54			4950.53
	Total				77136.26 Z
	Add Cess @ 1% on "Z-A"	37954.07			379.54
	Cost of 20 metre pile				77515.80
	Cost of 1 metre pile				3875.79
	Say				3875.80

20.2A.2 750 mm dia piles

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 15 m length of pile				
	MATERIAL				
	Concrete $3.14/4 \times 0.75^2 \times 15 = 6.62$ cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	6.62	6934.90	45909.05 A
7183	Bentonite	tonne	0.30	2960.00	888.00
9999	Sundries	L.S.	131.58	2.00	263.16
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.70	30000.00	21000.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.75	3500.00	2625.00
018	Hire and running charges of loader	day	0.30	5000.00	1500.00
017	Hire and running charges of tipper	day	0.30	1700.00	510.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.14	476.00	66.64
0017	Beldar	day	3.50	320.83	1122.91
	TOTAL				74064.75 W
	Add 1 % Water charges on "W-A"	28155.71			281.56
	TOTAL				74346.31 X
	Add GST (multiplying factor 0.1405) on "X-A"	28437.26			3995.44
	TOTAL				78341.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	32432.70			4864.90
	Total				83206.65 Z
	Add Cess @ 1% on "Z-A"	37297.60			372.98
	Cost of 15 metre pile				83579.62
	Cost of 1 metre pile				5571.97
	Say				5571.95

20.2A.3 1000 mm dia piles

Details of cost for 10 m length of pile

MATERIAL

Concrete $3.14/4 \times 1.00^2 \times 10 = 7.85$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	7.85	6934.90	54438.97 A
7183	Bentonite	tonne	0.35	2960.00	1036.00
9999	Sundries	L.S.	175.89	2.00	351.78

MACHINERY

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.69	30000.00	20700.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.75	3500.00	2625.00
018	Hire and running charges of loader	day	0.40	5000.00	2000.00
017	Hire and running charges of tipper	day	0.40	1700.00	680.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.16	476.00	76.16
0017	Beldar	day	4.00	320.83	1283.32
	TOTAL				83371.23 W
	Add 1 % Water charges on "W-A"	28932.26			289.32
	TOTAL				83660.56 X
	Add GST (multiplying factor 0.1405) on "X-A"	29221.58			4105.63
	TOTAL				87766.19 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	33327.21			4999.08
	Total				92765.27 Z
	Add Cess @ 1% on "Z-A"	38326.30			383.26
	Cost of 10 metre pile				93148.53
	Cost of 1 metre pile				9314.85
	Say				9314.85

20.2A.4 1200 mm dia piles

Details of cost for 9 m length of pile

MATERIAL

Concrete $3.14/4 \times 1.20^2 \times 9 = 10.17$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	10.17	6934.90	70527.95 A
7183	Bentonite	tonne	0.385	2960.00	1139.60
9999	Sundries	L.S.	290.79	2.00	581.58

MACHINERY

024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.67	30000.00	20100.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.75	3500.00	2625.00
018	Hire and running charges of loader.	day	0.50	5000.00	2500.00
017	Hire and running charges of tipper	day	0.50	1700.00	850.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.18	476.00	85.68
0017	Beldar	day	4.50	320.83	1443.74
	TOTAL				100033.54 W
	Add 1 % Water charges on "W-A"	29505.60			295.06
	TOTAL				100328.60 X
	Add GST (multiplying factor 0.1405) on "X-A"	29800.65			4186.99
	TOTAL				104515.59 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	33987.64			5098.15
	Total				109613.73 Z
	Add Cess @ 1% on "Z-A"	39085.79			390.86
	Cost of 9 metre pile				110004.59
	Cost of 1 metre pile				12222.73
	Say				12222.75

20.2A.5 1500 mm dia piles

Details of cost for 9 m length of pile

MATERIAL

Concrete $3.14/4 \times 1.50^2 \times 9 = 15.90$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	15.90	6934.90	110264.93 A
7183	Bentonite	tonne	0.45	2960.00	1332.00
9999	Sundries	L.S.	593.48	2.00	1186.96

MACHINERY

024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.77	30000.00	23100.00
025	Hire and running charges of light crane.	day	0.10	3000.00	300.00
026	Hire and running charges of bentonite pump.	day	0.96	3500.00	3360.00
018	Hire and running charges of loader	day	0.75	5000.00	3750.00
017	Hire and running charges of tipper	day	0.75	1700.00	1275.00

LABOUR

Work supervisor

0030	Mistry	day	0.25	476.00	119.00
0017	Beldar	day	5.00	320.83	1604.15
	TOTAL				146292.04
	Add 1 % Water charges on "W-A"	36027.11			360.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				146652.31 X
	Add GST (multiplying factor 0.1405) on "X-A"		36387.38		5112.43
	TOTAL				151764.74 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		41499.81		6224.97
	Total				157989.71 Z
	Add Cess @ 1% on "Z-A"		47724.78		477.25
	Cost of 9 metre pile				158466.96
	Cost of 1 metre pile				17607.44
	Say				17607.45

20.3 Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :

20.3.1 300 mm dia piles

Details of cost for 10 metres

MATERIAL

R.C.C

Stem $-3.14/4 \times (0.30)^2 \times 9.625 = 0.680$ cum

Bulb $-3.14/4 \times (0.75)^2 \times 0.075 = 0.033$ cum

2x $3.14/4 \times (0.525)^2 \times 0.150 = 0.065$ cum

=0.778 cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	0.778	6934.90	5395.35 A
7183	Bentonite	tonne	0.08	2960.00	236.80
9999	Sundries	L.S.	410.92	2.00	821.84
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.36	30000.00	10800.00
025	Hire and running charges of light crane.	day	0.03	3000.00	90.00
026	Hire and running charges of bentonite pump.	day	0.02	3500.00	70.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				18093.73 W
	Add 1 % Water charges on "W-A"	12698.38			126.98
	TOTAL				18220.72 X
	Add GST (multiplying factor 0.1405) on "X-A"	12825.36			1801.96
	TOTAL				20022.68 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	14627.33			2194.10
	Total				22216.78 Z
	Add Cess @ 1% on "Z-A"	16821.43			168.21
	Cost of 10 metre pile				22384.99
	Cost of 1 metre pile				2238.50
	Say				2238.50

20.3.2 400 mm dia piles

Details of cost for 10 metres

MATERIAL

R.C.C

Stem $-3.14/4 \times (0.40)^2 \times 9.30 = 1.169$ cum

Bulb $-3.14/4 \times (1.00)^2 \times 0.1 = 0.079$ cum

2x $3.14/4 \times (0.7)^2 \times 0.30 = 0.23$ cum

= 1.478 cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	1.478	6934.90	10249.78 A
7183	Bentonite	tonne	0.15	2960.00	444.00
9999	Sundries	L.S.	276.82	2.00	553.64

MACHINERY

024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.36	30000.00	10800.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.02	3500.00	70.00

LABOUR

Work supervisor

0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66

	TOTAL				22977.16 W

	Add 1 % Water charges on "W-A"	12727.38			127.27

	TOTAL				23104.44 X

	Add GST (multiplying factor 0.1405) on "X-A"	12854.65			1806.08

	TOTAL				24910.52 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 15 % Contractor's profit and overheads on "Y-A"		14660.73		2199.11	
	Total				27109.63	Z
	Add Cess @ 1% on "Z-A"		16859.84		168.60	
	Cost of 10 metre pile				27278.22	
	Cost of 1 metre pile				2727.82	
	Say				2727.80	
20.3.3	450 mm dia piles					
	Details of cost for 10 metres					
	MATERIAL					
	R.C.C					
	Stem $-3.14/4 \times (0.45)^2 \times 9.212 = 1.465$ cum					
	Bulb $-3.14/4 \times (1.125)^2 \times 0.113 = 0.112$ cum					
	$2 \times 3.14/4 \times (0.788)^2 \times 0.337 = 0.329$ cum					
	= 1.906 cum					
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	1.906	6934.90	13217.92	A
7183	Bentonite	tonne	0.19	2960.00	562.40	
9999	Sundries	L.S.	194.81	2.00	389.62	
	MACHINERY					
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.36	30000.00	10800.00	
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00	
026	Hire and running charges of bentonite pump.	day	0.02	3500.00	70.00	
	LABOUR					
	Work supervisor					
0030	Mistry	day	0.08	476.00	38.08	
0017	Beldar	day	2.00	320.83	641.66	
	TOTAL				25899.68	W
	Add 1 % Water charges on "W-A"		12681.76		126.82	
	TOTAL				26026.50	X
	Add GST (multiplying factor 0.1405) on "X-A"		12808.58		1799.61	
	TOTAL				27826.10	Y
	Add 15 % Contractor's profit and overheads on "Y-A"		14608.18		2191.23	
	Total				30017.33	Z
	Add Cess @ 1% on "Z-A"		16799.41		167.99	
	Cost of 10 metre pile				30185.33	
	Cost of 1 metre pile				3018.53	
	Say				3018.55	

20.3.4 550 mm dia piles

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 metres				
	MATERIAL				
	R.C.C				
	Stem - $3.14/4 \times (0.50)^2 \times 9.125 = 1.792$ cum				
	Bulb - $3.14/4 \times (1.25)^2 \times 0.125 = 0.153$ cum				
	2x $3.14/4 \times (0.875)^2 \times 0.375 = 0.451$ cum = 2.396 cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	2.40	6934.90	16643.76 A
7183	Bentonite	tonne	0.20	2960.00	592.00
9999	Sundries	L.S.	208.15	2.00	416.30
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.36	30000.00	10800.00
025	Hire and running charges of light crane.	day	0.06	3000.00	180.00
026	Hire and running charges of bentonite pump.	day	0.02	3500.00	70.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.08	476.00	38.08
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				29381.80 W
	Add 1 % Water charges on "W-A"	12738.04			127.38
	TOTAL				29509.18 X
	Add GST (multiplying factor 0.1405) on "X-A"	12865.42			1807.59
	TOTAL				31316.77 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	14673.01			2200.95
	Total				33517.73 Z
	Add Cess @ 1% on "Z-A"	16873.96			168.74
	Cost of 10 metre pile				33686.47
	Cost of 1 metre pile				3368.65
	Say				3368.65
20.4	Extra over single under ream for providing additional bulbs in under reamed piles, under specified diameter(only the nos. of extra bulbs are to be paid)				
20.4.1	300 mm dia piles				
	Details of cost for 1 bulb.				
	MATERIAL				
	Bulb - 0.033 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	0.033	6934.90	228.85 A
7183	Bentonite	tonne	0.003	2960.00	8.88
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.02	30000.00	600.00
025	Hire and running charges of light crane.	day	0.01	3000.00	30.00
026	Hire and running charges of bentonite pump.	day	0.01	3500.00	35.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.02	476.00	9.52
0017	Beldar	day	1.00	320.83	320.83
	Total				1233.08 W
	Add 1 % Water charges on "W-A"	1004.23			10.04
	TOTAL				1243.12 X
	Add GST (multiplying factor 0.1405) on "X-A"	1014.27			142.51
	TOTAL				1385.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1156.78			173.52
	Total				1559.15 Z
	Add Cess @ 1% on "Z-A"	1330.29			13.30
	Cost of 1 bulb				1572.45
	Say				1572.45

20.4.2 400 mm dia piles

Details of cost for 1 bulb.

MATERIAL

Bulb - 0.063 cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	0.063	6934.90	436.90 A
7183	Bentonite	tonne	0.006	2960.00	17.76
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.02	30000.00	600.00
025	Hire and running charges of light crane.	day	0.01	3000.00	30.00
026	Hire and running charges of bentonite pump.	day	0.01	3500.00	35.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.02	476.00	9.52
0017	Beldar	day	1.00	320.83	320.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Total				1450.01	W
	Add 1 % Water charges on "W-A"	1013.11			10.13	
	TOTAL				1460.14	X
	Add GST (multiplying factor 0.1405) on "X-A"	1023.24			143.77	
	TOTAL				1603.91	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1167.01			175.05	
	Total				1778.96	Z
	Add Cess @ 1% on "Z-A"	1342.06			13.42	
	Cost of 1 bulb				1792.38	
	Say				1792.40	

20.4.3 450 mm dia piles

Details of cost for 1 bulb.

MATERIAL

Bulb - 0.081 cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	0.081	6934.90	561.73	A
7183	Bentonite	tonne	0.008	2960.00	23.68	

MACHINERY

024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.02	30000.00	600.00	
025	Hire and running charges of light crane.	day	0.01	3000.00	30.00	
026	Hire and running charges of bentonite pump.	day	0.01	3500.00	35.00	

LABOUR

Work supervisor

0030	Mistry	day	0.02	476.00	9.52	
0017	Beldar	day	1.00	320.83	320.83	
	Total				1580.76	W
	Add 1 % Water charges on "W-A"	1019.03			10.19	
	TOTAL				1590.95	X
	Add GST (multiplying factor 0.1405) on "X-A"	1029.22			144.61	
	TOTAL				1735.55	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1173.83			176.07	
	Total				1911.63	Z
	Add Cess @ 1% on "Z-A"	1349.90			13.50	
	Cost of 1 bulb				1925.13	
	Say				1925.15	

20.4.4 550 mm dia piles

Details of cost for 1 bulb.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
	Bulb - 0.102 cum				
5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	0.102	6934.90	707.36 A
7183	Bentonite	tonne	0.01	2960.00	29.60
	MACHINERY				
024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site.	day	0.02	30000.00	600.00
025	Hire and running charges of light crane.	day	0.01	3000.00	30.00
026	Hire and running charges of bentonite pump.	day	0.02	3500.00	70.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.02	476.00	9.52
0017	Beldar	day	1.00	320.83	320.83
	Total				1767.31 W
	Add 1 % Water charges on "W-A"	1059.95			10.60
	TOTAL				1777.91 X
	Add GST (multiplying factor 0.1405) on "X-A"	1070.55			150.41
	TOTAL				1928.32 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1220.96			183.14
	Total				2111.47 Z
	Add Cess @ 1% on "Z-A"	1404.11			14.04
	Cost of 1 bulb				2125.51
	Say				2125.50

20.5 Providing, driving with vibrating pile driving hammer complete with power units & accessories and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M-25 cement concrete to carry safe working load not less than specified. With a central through preformed hole with M.S. black pipe of dia, 40 mm for grouting with cement sand grouting of mix 1:2 (1cement : 2 coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement. (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap).

20.5.1 400 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (0.40)^2 \times 20 = 2.51$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	2.51	6934.90	17406.60 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add				
5.19	Rate as per item no 5.19 of SH : RCC	cum	2.51	10438.40	26200.38 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-2.51	6234.10	-15647.60 A
3.7	Cement mortar 1:2 for grout	cum	0.025	5150.60	128.77
	Rate as per Item Number 3.7 of SH: Mortars				
9999	Sundries	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile @35 kg per pile	kilogram	35.00	43.00	1505.00
	MACHINERY				
027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity. LABOUR	day	0.06	7000.00	420.00
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				47156.76 W
	Add 1 % Water charges on "W-A"		19197.38		191.97
	TOTAL				47348.74 X
	Add GST (multiplying factor 0.1405) on "X-A"		19389.35		2724.20
	TOTAL				50072.94 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		22113.55		3317.03
	Total				53389.97 Z
	Add Cess @ 1% on "Z-A"		25430.59		254.31
	Cost of 20 metre pile				53644.28
	Cost of 1 metre pile				2682.21
	Say				2682.20

20.5.2 450 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (0.45)^2 \times 20 = 3.18$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.18	6934.90	22052.99 A
5.19	Add Rate as per item no 5.19 SH : RCC	cum	3.18	10438.40	33194.11 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-3.18	6234.10	-19824.44 A
3.7	Cement mortar 1:2 for grout	cum	0.025	5150.60	128.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate as per Item Number 3.7 of SH: Mortars				
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile @ 35 kg per pile	kilogram	35.00	43.00	1505.00
	MACHINERY				
027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity.	day	0.06	7000.00	420.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	1.08	476.00	514.08
0017	Beldar	day	10.78	320.83	3458.55
	TOTAL				57573.04 W
	Add 1 % Water charges on "W-A"	22150.39			221.50
	TOTAL				57794.55 X
	Add GST (multiplying factor 0.1405) on "X-A"	22371.90			3143.25
	TOTAL				60937.80 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	25515.15			3827.27
	Total				64765.07 Z
	Add Cess @ 1% on "Z-A"	29342.42			293.42
	Cost of 20 metre pile				65058.50
	Cost of 1 metre pile				3252.92
	Say				3252.90

20.5.3 500 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (0.50)^2 \times 20 = 3.925$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	3.925	6934.90	27219.49 A
5.19	Add Rate as per item no 5.19 SH : RCC	cum	3.925	10438.40	40970.72 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-3.925	6234.10	-24468.85 A
3.7	Cement mortar 1:2 for grout	cum	0.025	5150.60	128.77
	Rate as per Item Number 3.7 of SH: Mortars				
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe @ 35 kg per pile	kilogram	35.00	43.00	1505.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MACHINERY				
027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity.	day	0.06	7000.00	420.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				62918.73 W
	Add 1 % Water charges on "W-A"		19197.38		191.97
	TOTAL				63110.70 X
	Add GST (multiplying factor 0.1405) on "X-A"		19389.35		2724.20
	TOTAL				65834.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		22113.55		3317.03
	Total				69151.94 Z
	Add Cess @ 1% on "Z-A"		25430.59		254.31
	Cost of 20 metre pile				69406.25
	Cost of 1 metre pile				3470.31
	Say				3470.30

20.5.4 550 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (0.55)^2 \times 20 = 4.75$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	4.75	6934.90	32940.78 A
5.19	Add Rate as per item no 5.19 SH : RCC	cum	4.75	10438.40	49582.40 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-4.75	6234.10	-29611.99 A
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	5150.60	128.77
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe @ 35 kg per pile	kilogram	35.00	43.00	1505.00

MACHINERY

027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity.	day	0.06	7000.00	420.00
	LABOUR				
	Work supervisor				
0030	Mistry	day	0.12	476.00	57.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				72108.57 W
	Add 1 % Water charges on "W-A"		19197.38		191.97
	TOTAL				72300.54 X
	Add GST (multiplying factor 0.1405) on "X-A"		19389.35		2724.20
	TOTAL				75024.75 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		22113.55		3317.03
	Total				78341.78 Z
	Add Cess @ 1% on "Z-A"		25430.59		254.31
	Cost of 20 metre pile				78596.09
	Cost of 1 metre pile				3929.80
	Say				3929.80

20.5.5 750 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (0.75)^2 \times 20 = 10.88$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	10.88	6934.90	75451.73 A
5.19	Add Rate as per item no 5.19 SH : RCC	cum	10.88	10438.40	113569.79 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-10.88	6234.10	-67827.03 A
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	5150.60	128.77
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00

@ 35 kg per pile

MACHINERY

027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity.	day	0.06	7000.00	420.00

LABOUR

Work supervisor

0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49
	TOTAL				140391.86 W
	Add 1 % Water charges on "W-A"		19197.38		191.97

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				140583.83 X
	Add GST (multiplying factor 0.1405) on "X-A"		19389.35		2724.20
	TOTAL				143308.04 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		22113.55		3317.03
	Total				146625.07 Z
	Add Cess @ 1% on "Z-A"		25430.59		254.31
	Cost of 20 metre pile				146879.38
	Cost of 1 metre pile				7343.97
	Say				7343.95

20.5.6 1000 mm dia piles

Details of cost for 20 m length of pile

MATERIAL

Concrete $-3.14/4 \times (1.00)^2 \times 20 = 15.70$ cum

5.33.1	Rate as per item no 5.33.1 of SH : RCC Work	cum	15.70	6934.90	108877.95 A
5.19	Add Rate as per item no 5.19 SH : RCC	cum	15.70	10438.40	163882.88 A
5.1.3	Deduct Rate as per item no 5.1.3 SH : RCC	cum	-15.70	6234.10	-97875.40 A
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.025	5150.60	128.77
9999	Wooden block @ 1 block per two piles	L.S.	442.00	2.00	884.00
7181	C.I. pile shoe of 80 kg per pile @ 80 kg per pile	kilogram	80.00	48.00	3840.00
7182	M.S. clamps for pile shoe of 35 kg per pile	kilogram	35.00	43.00	1505.00

@ 35 kg per pile

MACHINERY

027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories .	day	0.38	30000.00	11400.00
028	Hire and running charges of crane 20 tonne capacity.	day	0.06	7000.00	420.00

LABOUR

Work supervisor

0030	Mistry	day	0.12	476.00	57.12
0017	Beldar	day	3.00	320.83	962.49

TOTAL 194082.80 W

Add 1 % Water charges on "W-A" 19197.38 191.97

TOTAL 194274.77 X

Add GST (multiplying factor 0.1405) on "X-A" 19389.35 2724.20

TOTAL 196998.97 Y

Add 15 % Contractor's profit and overheads on "Y-A" 22113.55 3317.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Total				200316.01	Z
	Add Cess @ 1% on "Z-A"	25430.59			254.31	
	Cost of 20 metre pile				200570.31	
	Cost of 1 metre pile				10028.52	
	Say				10028.50	
20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer incharge.					
20.6.1	Single pile upto 50 tonne Safe capacity					
20.6.1.1	Initial test (Test Load 2.5 times the Safe capacity)					
	Details of cost for 1 test					
7246	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and upto 50MT capacity	per test	1	40000.00	40000.00	
	TOTAL				40000.00	W
	Add 1 % Water charges on "W"				400.00	
	TOTAL				40400.00	X
	Add GST (multiplying factor 0.1405) on "X"				5676.20	
	TOTAL				46076.20	Y
	Add 15 % Contractor's profit and overheads on "Y"				6911.43	
	Total				52987.63	Z
	Add Cess @ 1% on "Z"				529.88	
	Cost per test				53517.51	
	Say				53517.50	
20.6.1.2	Routine test (Test Load 1.5 times the Safe capacity)					
	Details of cost for 1 test					
7249	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Single pile upto 50 tonne capacity	per test	1	15000.00	15000.00	
	TOTAL				15000.00	W
	Add 1 % Water charges on "W"				150.00	
	TOTAL				15150.00	X
	Add GST (multiplying factor 0.1405) on "X"				2128.58	
	TOTAL				17278.58	Y
	Add 15 % Contractor's profit and overheads on "Y"				2591.79	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				19870.36 Z
	Add Cess @ 1% on "Z"				198.70
	Cost per test				20069.06
	Say				20069.05

20.6.2 Single pile above 50 tonne and upto 100 tonne Safe capacity

20.6.2.1 Initial test (Test Load 2.5 times the Safe capacity)

7247	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	per test	1	45000.00	45000.00
	TOTAL				45000.00 W
	Add 1 % Water charges on "W"				450.00
	TOTAL				45450.00 X
	Add GST (multiplying factor 0.1405) on "X"				6385.73
	TOTAL				51835.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				7775.36
	Total				59611.08 Z
	Add Cess @ 1% on "Z"				596.11
	Cost per test				60207.19
	Say				60207.20

20.6.2.2 Routine test (Test Load 1.5 times the Safe capacity)

Details of cost for 1 test

7250	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Single pile above 50 tonne capacity pile and upto 100 tonne capacity pile	per test	1	23000.00	23000.00
	TOTAL				23000.00 W
	Add 1 % Water charges on "W"				230.00
	TOTAL				23230.00 X
	Add GST (multiplying factor 0.1405) on "X"				3263.82
	TOTAL				26493.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				3974.07
	Total				30467.89 Z
	Add Cess @ 1% on "Z"				304.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per test				30772.57
	Say				30772.55

20.6.3 Group of two or more piles upto 50 tonne Safe capacity

20.6.3.1 Initial test (Test Load 2.5 times the Safe capacity)

Details of cost for 1 test

7248	Verticle load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and prepration of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more upto 50MT.	per test	1	50000.00	50000.00
	TOTAL				50000.00 W
	Add 1 % Water charges on "W"				500.00
	TOTAL				50500.00 X
	Add GST (multiplying factor 0.1405) on "X"				7095.25
	TOTAL				57595.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				8639.29
	Total				66234.54 Z
	Add Cess @ 1% on "Z"				662.35
	Cost per test				66896.88
	Say				66896.90

20.6.3.2 Routine test (Test Load 1.5 times the Safe capacity)

Details of cost for 1 test

7251	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Group of two piles upto 50 tonne capacity each	per test	1	29500.00	29500.00
	TOTAL				29500.00 W
	Add 1 % Water charges on "W"				295.00
	TOTAL				29795.00 X
	Add GST (multiplying factor 0.1405) on "X"				4186.20
	TOTAL				33981.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				5097.18
	Total				39078.38 Z
	Add Cess @ 1% on "Z"				390.78
	Cost per test				39469.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				39469.15
20.7	Cyclic vertical load testing of pile in accordance with IS Code of practice IS: 2911 (part IV) by Kentledge method including preparation of pile head etc for.				
20.7.1	Single pile				
20.7.1.1	Upto 50 tonne Safe capacity pile				
	Details of cost for 1 test				
7249	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Single pile upto 50 tonne capacity	per test	1	15000.00	15000.00
	TOTAL				15000.00 W
	Add 1 % Water charges on "W"				150.00
	TOTAL				15150.00 X
	Add GST (multiplying factor 0.1405) on "X"				2128.58
	TOTAL				17278.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				2591.79
	Total				19870.36 Z
	Add Cess @ 1% on "Z"				198.70
	Cost per test				20069.06
	Say				20069.05
20.7.1.2	Above 50 tonne and upto 100 tonne Safe capacity pile				
	Details of cost for 1 test				
7250	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Single pile above 50 tonne capacity pile and upto 100 tonne capacity pile	per test	1	23000.00	23000.00
	TOTAL				23000.00 W
	Add 1 % Water charges on "W"				230.00
	TOTAL				23230.00 X
	Add GST (multiplying factor 0.1405) on "X"				3263.82
	TOTAL				26493.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				3974.07
	Total				30467.89 Z
	Add Cess @ 1% on "Z"				304.68
	Cost per test				30772.57
	Say				30772.55
20.7.2	Group of two or more piles				
20.7.2.1	Upto 400 tonne Safe capacity of group				
	Details of cost for 1 test				
7251	Cyclic verticle load testing of piles in accordance with IS : 2911 (Part-IV) including prepration of pile head etc. for Group of two piles upto 50 tonne capacity each	per test	1	29500.00	29500.00
	TOTAL				29500.00 W
	Add 1 % Water charges on "W"				295.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				29795.00 X
	Add GST (multiplying factor 0.1405) on "X"				4186.20
	TOTAL				33981.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				5097.18
	Total				39078.38 Z
	Add Cess @ 1% on "Z"				390.78
	Cost per test				39469.16
	Say				39469.15
20.8	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile :				
20.8.1	Upto 50 tonne capacity pile				
	Details of cost for 1 test				
7252	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile. Upto 50 tonne capacity	per test	1	15000.00	15000.00
	TOTAL				15000.00 W
	Add 1 % Water charges on "W"				150.00
	TOTAL				15150.00 X
	Add GST (multiplying factor 0.1405) on "X"				2128.58
	TOTAL				17278.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				2591.79
	Total				19870.36 Z
	Add Cess @ 1% on "Z"				198.70
	Cost per test				20069.06
	Say				20069.05
20.8.2	Above 50 tonne and upto 100 tonne capacity pile				
	Details of cost for 1 test				
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile. Above 50 tonne capacity	per test	1	23600.00	23600.00
	TOTAL				23600.00 W
	Add 1 % Water charges on "W"				236.00
	TOTAL				23836.00 X
	Add GST (multiplying factor 0.1405) on "X"				3348.96
	TOTAL				27184.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				4077.74
	Total				31262.70 Z
	Add Cess @ 1% on "Z"				312.63
	Cost per test				31575.33
	Say				31575.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
20.9	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-incharge.				
	Detail of cost for one pit test (Ten pits in one day)				
	MATERIAL				
076	Pile Integrity testing equipment	day	0.10	3000.00	300.00
	LABOUR				
0044	Technician	day	0.10	374.50	37.45
0045	Helper (Technician) Miscellaneous	day	0.10	320.83	32.08
9999	Reporting charges	L.S.	100.67	2.00	201.34
9977	Transportation and consumables etc.	L.S.	33.56	2.00	67.12
	TOTAL				637.99 W
	Add 1 % Water charges on "W"				6.38
	TOTAL				644.37 X
	Add GST (multiplying factor 0.1405) on "X"				90.53
	TOTAL				734.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.24
	Total				845.14 Z
	Add Cess @ 1% on "Z"				8.45
	Cost per test				853.59
	Say				853.60

SUB HEAD : 21.0

ALUMINIUM WORK

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
21.1.1	For fixed portion				
21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) Details of cost for 40.02 kg MATERIAL (i) External member of the frame (Jindal section no 4605) $V = 2 \times 2.40 = 4.80 \text{ m}$ $H = 2 \times 3 \times 0.95 = 5.70 \text{ m}$ $= 10.50 \text{ m @ } 1.653 \text{ kg/m} = 17.36 \text{ kg}$ (ii) Internal member of the frame (Jindal section no 4604) $V = 2 \times 2.40 = 4.80 \text{ m}$ $H = 1 \times 3 \times 0.95 = 2.85 \text{ m}$ $= 7.65 \text{ m @ } 1.692 \text{ kg/m} = 12.94 \text{ kg}$ (iii) Aluminium snap beading on both side (Jindal section no 4407) $2 \times 6 \times 2 (1.14 + 0.95) = 50.16 \text{ m}$ Snap beading = $50.16 \text{ m @ } 0.176 \text{ kg/m} = 8.33 \text{ kg}$ (iv) Angle cleat $38 \times 38 \times 4.8 \text{ mm } 50 \text{ mm}$ $\text{long } 18 \times 0.05 = 0.900 \text{ m @ } 0.985 \text{ kg/m} = 0.89 \text{ kg}$ Sub total = 40.02 kg Add 5% wastage = 2.00 kg Total = 42.02 kg				
7306	Aluminium T or L sections	kilogram	42.02	190.00	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle $18 \times 4 = 72 \text{ Nos}$				
589	Chromium plated Brass screws 20 mm	100 Nos	0.72	160.00	115.20
	(vi)				
7389	Anodising 15 microns on aluminium sections	kilogram	42.02	38.00	1596.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	(vii) Carriage of material LABOUR For fabrication of frame	L.S.	52.00	2.00	104.00
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	1.00	320.83	320.83
0010	Bandhani	day	0.05	320.83	16.04
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fasteners and sundries	L.S.	100.00	2.00	200.00
	TOTAL				11609.46 W
	Add 1 % Water charges on "W"				116.09
	TOTAL				11725.56 X
	Add GST (multiplying factor 0.1405) on "X"				1647.44
	TOTAL				13373.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				2005.95
	Total				15378.95 Z
	Add Cess @ 1% on "Z"				153.79
	Cost for 40.02 kg				15532.74
	Cost for 1 kg				388.12
	Say				388.10

21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)

Details of cost for 40.02 kg

MATERIAL

(i) External member of the frame

(Jindal section no 4605)

$V = 2 \times 2.40 = 4.80 \text{ m}$

$H = 2 \times 3 \times 0.95 = 5.70 \text{ m}$

$= 10.50 \text{ m @ } 1.653 \text{ kg/m} = 17.36 \text{ kg}$

(ii) Internal member of the frame

(Jindal section no 4604)

$V = 2 \times 2.40 = 4.80 \text{ m}$

$H = 1 \times 3 \times 0.95 = 2.85 \text{ m}$

$= 7.65 \text{ m @ } 1.692 \text{ kg/m} = 12.94 \text{ kg}$

(iii) Aluminium snap beading on both side

(Jindal section no 4407)

$2 \times 6 \times 2 (1.14 + 0.95) = 50.16 \text{ m}$

Snap beading $= 50.16 \text{ m @ } 0.176 \text{ kg/m}$

$= 8.33 \text{ kg}$

(iv) Angle cleat $38 \times 38 \times 4.8 \text{ mm } 50 \text{ mm long}$

$18 \times 0.05 = 0.900 \text{ m @ } 0.985 \text{ kg/m} = 0.89 \text{ kg}$

Sub total $= 40.02 \text{ kg}$

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 5% wastage = 2.00 kg Total = 42.02 kg				
7306	Aluminium T or L sections	kilogram	42.02	190.00	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle 18x4 = 72 Nos				
589	Chromium plated Brass screws 20 mm (vi)	100 Nos	0.72	160.00	115.20
	Epoxy				
7392	Powder coating 50 microns on aluminium sections	kilogram	42.02	61.00	2563.22
	(vii)				
9977	Carriage of material	L.S.	52.00	2.00	104.00
	LABOUR				
	For fabrication of frame				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	1.00	320.83	320.83
0010	Bandhani	day	0.05	320.83	16.04
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	100.00	2.00	200.00
	TOTAL				12575.92 W
	Add 1 % Water charges on "W"				125.76
	TOTAL				12701.68 X
	Add GST (multiplying factor 0.1405) on "X"				1784.59
	TOTAL				14486.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				2172.94
	Total				16659.21 Z
	Add Cess @ 1% on "Z"				166.59
	Cost for 40.02 kg				16825.80
	Cost for 1 kg				420.43
	Say				420.45

21.1.1.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)

Details of cost for 40.02 kg

(i) External member of the frame
(Jindal section no 4605)

V = 2x2.40 = 4.80 m

H = 2x3x0.95 = 5.70 m

= 10.50 m @ 1.653 kg/m = 17.36 kg

(ii) Internal member of the frame

(Jindal section no 4604)

V = 2x2.40 = 4.80 m

H = 1x3x0.95 = 2.85 m

= 7.65 m @ 1.692 kg/m = 12.94 kg

(iii) Aluminium snap beading on both side

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(Jindal section no 4407) 2x6x2 (1.14+0.95) = 50.16 m Snap beading = 50.16 m @ 0.176 kg/m = 8.33 kg (iv) Angle cleat 38x38x4.8 mm 50 mm long 18x0.05 = 0.900 m @ 0.985 kg/m = 0.89 kg Sub total =40.02 kg Add 5% wastage = 2.00 kg Total = 42.02 kg				
7306	Aluminium T or L sections	kilogram	42.02	190.00	7983.80
	(v) C.P. brass /stainless steel screws 20 mm for cleat angle 18x4 = 72 Nos				
589	Chromium plated Brass screws 20 mm	100 Nos	0.72	160.00	115.20
	(vi)				
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	42.02	67.00	2815.34
	(vii)				
9977	Carriage of material	L.S.	52.00	2.00	104.00
	LABOUR				
	For fabrication of frame				
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	1.00	320.83	320.83
0010	Bandhani	day	0.05	320.83	16.04
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners and sundries	L.S.	100.00	2.00	200.00
	TOTAL				12828.04 W
	Add 1 % Water charges on "W"				128.28
	TOTAL				12956.32 X
	Add GST (multiplying factor 0.1405) on "X"				1820.36
	TOTAL				14776.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				2216.50
	Total				16993.19 Z
	Add Cess @ 1% on "Z"				169.93
	Cost for 40.02 kg				17163.12
	Cost for 1 kg				428.86
	Say				428.85
21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 20.21 kg				
	MATERIAL				
	(i) Hanging style (Jindal section no 4524) 1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg				
	(ii) Meeting style (Jindal section no 4526) 1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg				
	(iii) Top & bottom rail (Jindal section no 4510) 2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg				
	(iv) Lock rail (Jindal section no 4524) 1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg (v)				
	Glazing plate (Jindal section no 440) on one side of lock rail 1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg (vi)				
	Aluminium snap beading (Jindal section no 4497) on both side 2x2 (0.75+1.26) = 8.04 m 2x2 (0.75+0.81) = 6.24 m = 14.28 m @ 0.176 kg/m = 2.51 kg				
	(vii) Aluminium angle cleat 38x38x4.8 mm 35 mm long 3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg				
	Sub total = 20.62 kg Add 5% wastage = 1.03 kg Total = 21.65 kg				
7306	Aluminium T or L sections (viii)	kilogram	21.65	190.00	4113.50
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	0.40	393.00	157.20
	(ix) C.P. brass /stainless steel screws 20 mm For cleat 12x4 = 48 For cleat 4x8 = 32 For glazing plate @ 15 cm centre to centre in 75 cm length 2x6 = 12 Total = 92 Nos				
589	Chromium plated Brass screws 20 mm (x)	100 Nos	0.92	160.00	147.20
7389	Anodising 15 microns on aluminium sections (xi)	kilogram	21.65	38.00	822.70
9977	Carriage of material (xii) Neoprene/ EPDM gasket in groove of meeting style	L.S.	31.20	2.00	62.40
7390	Neoprene/EPDM rubber gasket	metre	2.35	19.00	44.65
	LABOUR				
	For fabrication				
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	0.50	320.83	160.42
0010	Bandhani	day	0.40	320.83	128.33

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	For fixing the shutter including hinges :				
0014	Carpenter 1st class	day	0.20	476.00	95.20
0017	Beldar	day	0.50	320.83	160.42
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50.00	2.00	100.00
	TOTAL				6788.84 W
	Add 1 % Water charges on "W"				67.89
	TOTAL				6856.73 X
	Add GST (multiplying factor 0.1405) on "X"				963.37
	TOTAL				7820.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				1173.02
	Total				8993.12 Z
	Add Cess @ 1% on "Z"				89.93
	Cost for 20.21 kg				9083.05
	Cost for 1 kg				449.43
	Say				449.45

21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)

Details of cost for 20.21 kg

MATERIAL

(i) Hanging style (Jindal section no 4524)

1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg

(ii) Meeting style (Jindal section no 4526)

1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg

(iii) Top & bottom rail (Jindal section no 4510)

2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg

(iv) Lock rail (Jindal section no 4524)

1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg (v)

Glazing plate (Jindal section no 440) on one side of lock rail

1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg (vi)

Aluminium snap beading (Jindal section no 4497) on both side 2x2 (0.75+1.26) = 8.04 m
2x2 (0.75+0.81) = 6.24 m

= 14.28 m @ 0.176 kg/m = 2.51 kg

(vii) Aluminium angle cleat 38x38x4.8 mm
35 mm long

3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg

Sub total = 20.62 kg

Add 5% wastage = 1.03 kg

Total = 21.65 kg

7306	Aluminium T or L sections	kilogram	21.65	190.00	4113.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(viii)				
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	0.40	393.00	157.20
	(ix) C.P. brass /stainless steel screws 20 mm				
	For cleat 12x4 = 48				
	For cleat 4x8 = 32				
	For glazing plate @ 15 cm centre to centre in 75 cm length 2x6 = 12				
	Total = 92 Nos				
589	Chromium plated Brass screws 20 mm (x)	100 Nos	0.92	160.00	147.20
7392	Epoxy Powder coating 50 microns on aluminium sections	kilogram	21.65	61.00	1320.65
	(xi)				
9977	Carriage of material	L.S.	31.20	2.00	62.40
	(xii) Neoprene/ EPDM rubber gasket in groove of meeting style				
7390	Neoprene/EPDM rubber gasket LABOUR	metre	2.35	19.00	44.65
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	0.50	320.83	160.42
0010	Bandhani	day	0.40	320.83	128.33
	For fixing the shutter including hinges :				
0014	Carpenter 1st class	day	0.20	476.00	95.20
0017	Beldar	day	0.50	320.83	160.42
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50.00	2.00	100.00
	TOTAL				7286.79 W
	Add 1 % Water charges on "W"				72.87
	TOTAL				7359.66 X
	Add GST (multiplying factor 0.1405) on "X"				1034.03
	TOTAL				8393.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				1259.05
	Total				9652.75 Z
	Add Cess @ 1% on "Z"				96.53
	Cost for 20.21 kg				9749.27
	Cost for 1 kg				482.40
	Say				482.40

21.1.2.3 Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)

Details of cost for 20.21 kg

MATERIAL

(i) Hanging style (Jindal section no 4524)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1x2.35 = 2.35 m @ 2.53 kg/m = 5.95 kg (ii) Meeting style (Jindal section no 4526) 1x2.35 = 2.35 m @ 2.465 kg/m = 5.79 kg (iii) Top & bottom rail (Jindal section no 4510) 2x0.75 = 1.50 m @ 2.48 kg/m = 3.72 kg (iv) Lock rail (Jindal section no 4524) 1x0.75 = 0.75 m @ 2.53 kg/m = 1.90 kg (v) Glazing plate (Jindal section no 440) on one side of lock rail 1x0.75 = 0.75 m @ 0.459 kg/m = 0.34 kg (vi) Aluminium snap beading (Jindal section no 4497) on both side 2x2 (0.75+1.26) = 8.04 m 2x2 (0.75+0.81) = 6.24 m = 14.28 m @ 0.176 kg/m = 2.51 kg (vii) Aluminium angle cleat 38x38x4.8 mm 35 mm long 3x4x0.035 = 0.42 m @ 0.985 kg/m = 0.41 kg Sub total = 20.62 kg Add 5% wastage = 1.03 kg Total = 21.65 kg				
7306	Aluminium T or L sections (viii)	kilogram	21.65	190.00	4113.50
689	Anodised Aluminium butt hinges 100x75x4 mm (ix) C.P. brass /stainless steel screws 20 mm For cleat 12x4 = 48 For cleat 4x8 = 32 For glazing plate @ 15 cm centre to centre in 75 cm length 2x6 = 12 Total = 92 Nos	10 Nos	0.40	393.00	157.20
589	Chromium plated Brass screws 20 mm (x)	100 Nos	0.92	160.00	147.20
7393	Polyester powder coating 50 microns on aluminium sections (xi)	kilogram	21.65	67.00	1450.55
9977	Carriage of material (xii) Neoprene/ EPDM rubber gasket in groove of meeting style	L.S.	31.2	2.00	62.40
7390	Neoprene/EPDM rubber gasket LABOUR For fabrication	metre	2.35	19.00	44.65
0019	Fitter (grade 1)	day	1.00	476.00	476.00
0037	Skilled Beldar (for floor rubbing etc.)	day	1.00	320.83	320.83
0017	Beldar	day	0.50	320.83	160.42
0010	Bandhani	day	0.40	320.83	128.33
	For fixing the shutter including hinges :				
0014	Carpenter 1st class	day	0.20	476.00	95.20
0017	Beldar	day	0.50	320.83	160.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for making provision for fittings and carriage of screws etc. including sundries	L.S.	50.00	2.00	100.00
	TOTAL				7416.69 W
	Add 1 % Water charges on "W"				74.17
	TOTAL				7490.86 X
	Add GST (multiplying factor 0.1405) on "X"				1052.47
	TOTAL				8543.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				1281.50
	Total				9824.82 Z
	Add Cess @ 1% on "Z"				98.25
	Cost for 20.21 kg				9923.07
	Cost for 1 kg				491.00
	Say				491.00
21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side				
	Details of cost for 7 sqm				
	MATERIAL				
	12 mm thick particle board = 7.00 sqm				
	Add 5% wastage = 0.35 sqm				
	Total = 7.35 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	7.35	540.00	3969.00
9977	Carriage of particle board	L.S.	13.65	2.00	27.30
9999	Sundries & screws etc.	L.S.	27.3	2.00	54.60
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				4708.78 W
	Add 1 % Water charges on "W"				47.09
	TOTAL				4755.87 X
	Add GST (multiplying factor 0.1405) on "X"				668.20
	TOTAL				5424.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				813.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				6237.68 Z
	Add Cess @ 1% on "Z"				62.38
	Cost for 7 sqm				6300.05
	Cost for 1 sqm				900.01
	Say				900.00

21.2.2 Pre-laminated particle board with decorative lamination on both sides

Details of cost for 7 sqm

MATERIAL

12 mm thick particle board = 7.00 sqm

Add 5% wastage = 0.35 sqm

Total = 7.35 sqm

7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	7.35	575.00	4226.25
9977	Carriage of particle board	L.S.	13.65	2.00	27.30
9999	Sundries & screws etc.	L.S.	27.3	2.00	54.60
	LABOUR				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				4966.03 W
	Add 1 % Water charges on "W"				49.66
	TOTAL				5015.69 X
	Add GST (multiplying factor 0.1405) on "X"				704.70
	TOTAL				5720.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				858.06
	Total				6578.45 Z
	Add Cess @ 1% on "Z"				65.78
	Cost for 7 sqm				6644.24
	Cost for 1 sqm				949.18
	Say				949.20

21.3 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):

21.3.1 With float glass panes of 4.0 mm thickness weight not less than 10.00 kg / sqm

Details of cost for 1.00 sqm

MATERIAL

Float Glass panes 4.0 mm thick = 1.00 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add for wastage & breakage @ 10%				
	= 0.10 sqm				
	Total =1.10 sqm				
2406	Float glass sheet of nominal thickness	sqm	1.10	300.00	330.00
	4 mm (weight not less than 10kg/sqm).				
9977	Carriage of glass	L.S.	2.42	2.00	4.84
7390	Neoprene/EPDM rubber gasket	metre	6.00	19.00	114.00
	LABOUR				
0015	Carpenter 2nd class	day	0.23	374.50	86.14
0017	Beldar	day	0.23	320.83	73.79
9988	Sundries and carriage of gasket	L.S.	6.89	2.00	13.78
	TOTAL				622.55 W
	Add 1 % Water charges on "W"				6.23
	TOTAL				628.77 X
	Add GST (multiplying factor 0.1405) on "X"				88.34
	TOTAL				717.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				107.57
	Total				824.68 Z
	Add Cess @ 1% on "Z"				8.25
	Cost for 1 sqm				832.93
	Say				832.95
21.3.2	With float glass panes of 5.00 mm thickness weight not less than 12.50 kg / sqm				
	Details of cost for 1.00 sqm				
	MATERIAL				
	Glass panes 5.00 mm thick = 1.00 sqm				
	Add for wastage & breakage @ 10%				
	= 0.10 sqm				
	Total =1.10 sqm				
2407	Float glass sheet of nominal thickness	sqm	1.10	500.00	550.00
	5.5 mm.(weight not less than 12.50 kg/sqm).				
9977	Carriage of glass	L.S.	3.33	2.00	6.66
7390	Neoprene/EPDM rubber gasket	metre	6.00	19.00	114.00
	LABOUR				
0015	Carpenter 2nd class	day	0.23	374.50	86.14
0017	Beldar	day	0.23	320.83	73.79
9988	Sundries and carriage of gasket	L.S.	6.89	2.00	13.78
	TOTAL				844.37 W
	Add 1 % Water charges on "W"				8.44
	TOTAL				852.81 X
	Add GST (multiplying factor 0.1405) on "X"				119.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				972.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				145.89
	Total				1118.52 Z
	Add Cess @ 1% on "Z"				11.19
	Cost for 1 sqm				1129.71
	Say				1129.70
21.3.3	With float glass panes of 8 mm thickness weight not less than 20.00 kg / sqm				
	Details of cost for 1.00 sqm				
	MATERIAL				
	Float Glass panes 8.0 mm thick = 1.00 sqm				
	Add for wastage & breakage @ 10%				
	= 0.10 sqm				
	Total =1.10 sqm				
2408	Float glass sheet of nominal thickness	sqm	1.10	610.00	671.00
	8 mm.(weight not less than 20.00 kg/sqm).				
9977	Carriage of glass	L.S.	4.84	2.00	9.68
7390	Neoprene/EPDM rubber gasket	metre	6.00	19.00	114.00
	LABOUR				
0015	Carpenter 2nd class	day	0.23	374.50	86.14
0017	Beldar	day	0.23	320.83	73.79
9988	Sundries and carriage of gasket	L.S.	6.89	2.00	13.78
	TOTAL				968.39 W
	Add 1 % Water charges on "W"				9.68
	TOTAL				978.07 X
	Add GST (multiplying factor 0.1405) on "X"				137.42
	TOTAL				1115.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				167.32
	Total				1282.81 Z
	Add Cess @ 1% on "Z"				12.83
	Cost for 1 sqm				1295.64
	Say				1295.65
21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
21.4.1	With stainless steel cover plate minimum 1.25 mm thickness				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one number				
	MATERIAL				
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1.00	1500.00	1500.00
9977	CARRIAGE	L.S.	13.00	2.00	26.00
9999	Sundries and screws	L.S.	26.00	2.00	52.00
	Cement concrete 1:2:4				
4.1.3	Rate as per item no. 4.1.3 of SH : concrete work	cum	0.002	5954.35	11.91 A
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
0015	Carpenter 2nd class	day	0.01	374.50	3.75
0017	Beldar	day	0.17	320.83	54.54
	TOTAL				1716.23
	Add 1 % Water charges on "W-A"	1704.33			17.04
	TOTAL				1733.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	1721.37			241.85
	TOTAL				1975.13 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1963.22			294.48
	Total				2269.61 Z
	Add Cess @ 1% on "Z-A"	2257.71			22.58
	Cost for each				2292.19
	Say				2292.20

21.4.2 With brass cover plate minimum 1.25 mm thickness

Details of cost for one number

MATERIAL

7396	Double action hydraulic floor spring with brass cover plate	each	1.00	1620.00	1620.00
9977	CARRIAGE	L.S.	13.00	2.00	26.00
9999	Sundries and screws	L.S.	26.00	2.00	52.00
	Cement concrete 1:2:4				
4.1.3	Rate as per item no. 4.1.3 of SH : concrete work	cum	0.002	5954.35	11.91 A
	LABOUR				
	For cutting hole and making it good				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.08	476.00	38.08
0024	Mason (brick layer) 2nd class	day	0.08	374.50	29.96
0015	Carpenter 2nd class	day	0.01	374.50	3.75
0017	Beldar	day	0.17	320.83	54.54
	TOTAL				1836.23 W
	Add 1 % Water charges on "W-A"	1824.33			18.24
	TOTAL				1854.48 X
	Add GST (multiplying factor 0.1405) on "X-A"	1842.57			258.88
	TOTAL				2113.36 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2101.45			315.22
	Total				2428.58 Z
	Add Cess @ 1% on "Z-A"	2416.67			24.17
	Cost for each				2452.74
	Say				2452.75

- 21.5 Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall with stainless steel rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6 mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).**

Details of cost for 6.35 kg (2.40x2.40
= 5.76 sqm)

MATERIAL

(i) Aluminium main runner - assuming Tee of size 35x23.5x1.5 mm @ 600 mm centre to centre

3x2.40 m = 7.20 m

Extra for light fittings

2x1.20 m = 2.40 m

Total= 9.60 m @ 0.247 kg/m = 2.370 kg

Aluminium cross runner - assuming Tee of size 35x23.5x1.5 mm @ 600 mm centre to centre

3x4x0.60 m = 7.20 m

(-) 2x0.30 = (-) 0.60 m

Total=6.60 m @ 0.247 kg/m = 1.630 kg

Perimeter angle aluminium - assuming size 25.4x25.4x1.63 mm @ 600 mm centre to centre

4x2.40 m = 9.60 m @ 0.213 kg/m = 2.045 kg

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(ii) CLEATS Aluminium angle- assuming size 25.4x25.4x1.63 mm Extra for light fittings =3x2x2 = 12.00 Corner = 4.00 For joining runners = 42.00 Total = 58.00x0.025 = 1.45 m @ 0.213 kg/m = 0.309 kg Sub total = 2.370 + 1.630 + 2.045 + 0.309 =6.354 kg Add 5% wastage = 0.318 kg Total : 6.672 Kg				
7306	Aluminium T or L sections	kilogram	6.672	190.00	1267.68
	(iii) C.P. brass/ stainless steel screws 20 mm for angle cleats				
589	Chromium plated Brass screws 20 mm	100 Nos	0.0116	160.00	1.86
	(iv) Rawl plug for fixing perimeter angles				
7048	Rawl plug 50 mm (designation 10 no.)	each	24.00	25.00	600.00
	Epoxy				
7392	Powder coating 50 microns on aluminium sections	kilogram	6.67	61.00	406.87
	(vi)				
9977	Carriage of material	L.S.	13.00	2.00	26.00
	(vii)				
9999	C.P. brass screws for fixing frame with suspenders	L.S.	13.00	2.00	26.00
	LABOUR				
	For fabrication and erection				
0014	Carpenter 1st class	day	0.64	476.00	304.64
0017	Beldar	day	0.64	320.83	205.33
9999	Scaffolding and sundries	L.S.	13.00	2.00	26.00
	TOTAL				2864.38 W
	Add 1 % Water charges on "W"				28.64
	TOTAL				2893.02 X
	Add GST (multiplying factor 0.1405) on "X"				406.47
	TOTAL				3299.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				494.92
	Total				3794.41 Z
	Add Cess @ 1% on "Z"				37.94
	Cost for 6.35 kg				3832.36
	Cost for 1 kg				603.52
	Say				603.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length), fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60 mm long and stainless steel expandable dash fastener of 12.5 mm dia and 50 mm long, complete as per direction of Engineer-in-charge. Details of cost for 23 nos (hangers in 2.40 mx 2.40 m = 5.76 sqm)one number MATERIAL 6 mm dia G.I. adjustable hangers including clips (upto 1.20 metre length). For light fitting 2x4 = 8.00 For runners = 15.00 total = 23.00 7395 6 mm dia. G.I. adjustable hangers including clips (upto 1.2 m length) each 23.00 20.00 460.00 Ceiling cleats G.I. flat 40X3 mm 60mm long 23x0.06 = 1.38 m @ 0.95kg/m = 1.31kg Add 5% wastage = 0.07 kg Total = 1.38 kg say 0.014 q 992 Galvanised steel plain sheets quintal 0.014 5000.00 70.00 7388 Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt each 23.00 11.00 253.00 9977 Carriage of materials L.S. 5.20 2.00 10.40 LABOUR 0014 Carpenter 1st class day 0.35 476.00 166.60 0017 Beldar day 0.27 320.83 86.62 TOTAL 1046.62 W Add 1 % Water charges on "W" 10.47 TOTAL 1057.09 X Add GST (multiplying factor 0.1405) on "X" 148.52 TOTAL 1205.61 Y Add 15 % Contractor's profit and overheads on "Y" 180.84 Total 1386.45 Z Add Cess @ 1% on "Z" 13.86 Cost for 23 hangers 1400.32 Cost for one hanger 60.88 Say 60.90				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge.				
21.7.1	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)				
	Details of cost for 7.00 kg				
	MATERIAL				
	Anodised aluminium sheet 2.5 mm thick, 170 mm wide 5.88 m x0.17 m = 1.00 sqm @ 7.00 kg/ sqm = 7.00 kg Add 5% wastage = 0.35 kg Total = 7.35 kg				
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	7.35	240.00	1764.00
7389	Anodising 15 microns on aluminium sections	kilogram	7.35	38.00	279.30
7347	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	0.30	27.00	8.10
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	0.30	10.00	3.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	30.00	15.00	450.00
9977	Carriage of materials	L.S.	6.50	2.00	13.00
	LABOUR				
0015	Carpenter 2nd class	day	0.392	374.50	146.80
0017	Beldar	day	0.392	320.83	125.77
9999	Sundries including machine work	L.S.	21.45	2.00	42.90
	TOTAL				2832.87 W
	Add 1 % Water charges on "W"				28.33
	TOTAL				2861.20 X
	Add GST (multiplying factor 0.1405) on "X"				402.00
	TOTAL				3263.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				489.48
	Total				3752.68 Z
	Add Cess @ 1% on "Z"				37.53
	Cost for 7.00 kg				3790.20
	Cost for 1 kg				541.46
	Say				541.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.7.2	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)				
	Details of cost for 7.00 kg				
	MATERIAL				
	Anodised aluminium sheet 2.5 mm thick, 170 mm wide 5.88 m x 0.17 m = 1.00 sqm @ 7.00 kg/ sqm = 7.00 kg Add 5% wastage = 0.35 kg Total = 7.35 kg				
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	7.35	240.00	1764.00
7392	Powder coating 50 microns on aluminium sections	kilogram	7.35	61.00	448.35
7347	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 Nos	0.30	27.00	8.10
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	0.30	10.00	3.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	30.00	15.00	450.00
9977	Carriage of materials	L.S.	6.50	2.00	13.00
	LABOUR				
0015	Carpenter 2nd class	day	0.392	374.50	146.80
0017	Beldar	day	0.392	320.83	125.77
9999	Sundries including machine work	L.S.	21.45	2.00	42.90
	TOTAL				3001.92 W
	Add 1 % Water charges on "W"				30.02
	TOTAL				3031.94 X
	Add GST (multiplying factor 0.1405) on "X"				425.99
	TOTAL				3457.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				518.69
	Total				3976.61 Z
	Add Cess @ 1% on "Z"				39.77
	Cost for 7.00 kg				4016.38
	Cost for 1 kg				573.77
	Say				573.75
21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
21.8.1	Upto 5mm depth and 5 mm width				
	Details of cost for 1 metre				
	MATERIAL				
8646	Silicon sealant (i/c 5% wastage)	cartridge	0.087	100.00	8.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8654	Masking tape	metre	2.00	1.95	3.90
9999	Sundries & profile	L.S.	2.60	2.00	5.20
9999	LABOUR	L.S.	20.80	2.00	41.60
	TOTAL				59.40 W
	Add 1 % Water charges on "W"				0.59
	TOTAL				59.99 X
	Add GST (multiplying factor 0.1405) on "X"				8.43
	TOTAL				68.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				10.26
	Total				78.69 Z
	Add Cess @ 1% on "Z"				0.79
	Cost for 1 metre				79.47
	Say				79.45

21.9 Extra for applying additional anodic coating AC 25 instead of AC 15 to aluminium extruded sections.

21.9.1 For fixed portion

Details of cost for 41.09 kg Difference in cost of

7391	Anodising 25 microns on aluminium sections	kilogram	41.09	48.00	1972.32
7389	Anodising 15 microns on aluminium sections	kilogram	-41.09	38.00	-1561.42
	Total				410.90 W
	Add 1 % Water charges on "W"				4.11
	TOTAL				415.01 X
	Add GST (multiplying factor 0.1405) on "X"				58.31
	TOTAL				473.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				71.00
	Total				544.32 Z
	Add Cess @ 1% on "Z"				5.44
	Cost for 41.09 kg				549.76
	Cost for 1 kg				13.38
	Say				13.40

21.9.2 For shutters of doors, windows & ventilators

Details of cost for 21.65 kg Difference in cost of

7391	Anodising 25 microns on aluminium sections	kilogram	21.65	48.00	1039.20
7389	Anodising 15 microns on aluminium sections	kilogram	-21.65	38.00	-822.70
	Total				216.50 W
	Add 1 % Water charges on "W"				2.17
	TOTAL				218.67 X
	Add GST (multiplying factor 0.1405) on "X"				30.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				249.39 Y
	Add 15 % Contractor's profit and overheads on "Y"				37.41
	Total				286.80 Z
	Add Cess @ 1% on "Z"				2.87
	Cost for 21.65kg				289.66
	Cost for 1 kg				13.38
	Say				13.40
21.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.				
	Details of cost for 1.00 sqm				
	MATERIAL				
	Hermetically sealed double glazed unit made with 6mm thick clear float glass both side having 12 mm air gap = 1.00 sqm.				
	Add for wastage & breakage @ 10%				
	= 0.10 sqm				
	Total = 1.10 sqm				
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	1.10	2150.00	2365.00
9977	Carriage of glass	L.S.	6.66	2.00	13.32
7390	Neoprene/EPDM rubber gasket	metre	6.00	19.00	114.00
	LABOUR				
	Glazier /				
0015	Carpenter 2nd class	day	0.23	374.50	86.14
0017	Beldar	day	0.46	320.83	147.58
9988	Sundries and carriage of gasket	L.S.	6.89	2.00	13.78
	TOTAL				2739.82 W
	Add 1 % Water charges on "W"				27.40
	TOTAL				2767.21 X
	Add GST (multiplying factor 0.1405) on "X"				388.79
	TOTAL				3156.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				473.40
	Total				3629.41 Z
	Add Cess @ 1% on "Z"				36.29
	Cost for 1 sqm				3665.70
	Say				3665.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.11	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
21.11.1	205 X 19 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	10.00	172.00	1720.00
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.40	32.00	12.80
9977	CARRIAGE LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				1835.61 W
	Add 1 % Water charges on "W"				18.36
	TOTAL				1853.96 X
	Add GST (multiplying factor 0.1405) on "X"				260.48
	TOTAL				2114.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				317.17
	Total				2431.61 Z
	Add Cess @ 1% on "Z"				24.32
	Cost for 10 nos				2455.93
	Cost for each				245.59
	Say				245.60
21.11.2	255 X 19 mm				
	Details of cost for 10 nos.				
	MATERIAL				
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19mm	each	10.00	222.00	2220.00
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.40	32.00	12.80
9977	CARRIAGE LABOUR	L.S.	2.73	2.00	5.46
	LABOUR				0.00
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2335.61 W
	Add 1 % Water charges on "W"				23.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2358.96 X
	Add GST (multiplying factor 0.1405) on "X"				331.43
	TOTAL				2690.40 Y
	Add 15 % Contractor's profit and overheads on "Y"				403.56
	Total				3093.96 Z
	Add Cess @ 1% on "Z"				30.94
	Cost for 10 nos				3124.90
	Cost for each				312.49
	Say				312.50

21.11.3 355 X 19 mm

Details of cost sor 10 nos.

MATERIAL

8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	10.00	195.00	1950.00
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.40	32.00	12.80
9977	CARRIAGE LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				2065.61 W
	Add 1 % Water charges on "W"				20.66
	TOTAL				2086.26 X
	Add GST (multiplying factor 0.1405) on "X"				293.12
	TOTAL				2379.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				356.91
	Total				2736.29 Z
	Add Cess @ 1% on "Z"				27.36
	Cost for 10 nos				2763.65
	Cost for each				276.37
	Say				276.35

21.11.4 510 X 19 mm

Details of cost sor 10 nos.

MATERIAL

8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	10.00	525.00	5250.00
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.40	32.00	12.80
9977	CARRIAGE LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5365.61 W
	Add 1 % Water charges on "W"				53.66
	TOTAL				5419.26 X
	Add GST (multiplying factor 0.1405) on "X"				761.41
	TOTAL				6180.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				927.10
	Total				7107.77 Z
	Add Cess @ 1% on "Z"				71.08
	Cost for 10 nos				7178.85
	Cost for each				717.88
	Say				717.90

21.11.5 710 X 19 mm

Details of cost for 10 nos.

MATERIAL

8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	10.00	900.00	9000.00
8647	Stainless steel screws 30 mm x 4 mm	100 nos	0.40	32.00	12.80
9977	CARRIAGE LABOUR	L.S.	2.73	2.00	5.46
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.14	320.83	44.92
	TOTAL				9115.61 W
	Add 1 % Water charges on "W"				91.16
	TOTAL				9206.76 X
	Add GST (multiplying factor 0.1405) on "X"				1293.55
	TOTAL				10500.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				1575.05
	Total				12075.36 Z
	Add Cess @ 1% on "Z"				120.75
	Cost for 10 nos				12196.11
	Cost for each				1219.61
	Say				1219.60

21.12 Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.

21.12.1 Anodized (AC 15) aluminium tubular handle bar

Details of cost for 10 nos handle bar.

MATERIAL

10x22/7 x 1/4 (0.032x0.032 - 0.026 x

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.026) x 2.10 = 0.0057 cum 0.0057 cum @ 2710 kg/ cum = 15.56kg Add 5% wastage 0.78 kg Total = 16.34 kg				
7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
7389	Anodising 15 microns on aluminium sections	kilogram	16.34	38.00	620.92
9977	Carriage of material	L.S.	4.42	2.00	8.84
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.08	32.00	2.56
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	Total				3796.42 W
	Add 1 % Water charges on "W"				37.96
	TOTAL				3834.38 X
	Add GST (multiplying factor 0.1405) on "X"				538.73
	TOTAL				4373.12 Y
	Add 15 % Contractor's profit and overheads on "Y"				655.97
	Total				5029.08 Z
	Add Cess @ 1% on "Z"				50.29
	Cost for 10 nos				5079.37
	Cost for each				507.94
	Say				507.95

21.12.2 Powder coated minimum thickness 50 micron aluminium tubular handle bar

Details of cost for 10 nos handle bar.

MATERIAL

10x22/7 x 1/4 (0.032x0.032 - 0.026 x
0.026) x 2.10 = 0.0057 cum
0.0057 cum @ 2710 kg/ cum = 15.56kg
Add 5% wastage 0.78 kg
Total = 16.34 kg

7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
	Epoxy				
7392	Powder coating 50 microns on aluminium sectic	kilogram	16.34	61.00	996.74
9977	Carriage of material	L.S.	4.42	2.00	8.84
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.08	32.00	2.56
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	Total				4172.24 W
	Add 1 % Water charges on "W"				41.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4213.96 X
	Add GST (multiplying factor 0.1405) on "X"				592.06
	TOTAL				4806.02 Y
	Add 15 % Contractor's profit and overheads on "Y"				720.90
	Total				5526.93 Z
	Add Cess @ 1% on "Z"				55.27
	Cost for 10 nos				5582.20
	Cost for each				558.22
	Say				558.20
21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar				
	Details of cost for 10 nos handle bar.				
	MATERIAL				
	10x22/7 x 1/4 (0.032x0.032 0.026 x 0.026) x				
	2.10 = 0.0057 cum				
	0.0057 cum @ 2710 kg/ cum = 15.56kg				
	Add 5% wastage 0.78 kg				
	Total = 16.34 kg				
7306	Aluminium T or L sections	kilogram	16.34	190.00	3104.60
7393	Polyester powder coating 50 microns on aluminium	kilogram	16.34	67.00	1094.78
9977	Carriage of material	L.S.	4.42	2.00	8.84
8647	Stainless steel screws 30 mm x4 mm	100 nos	0.08	32.00	2.56
	LABOUR				
0014	Carpenter 1st class	day	0.125	476.00	59.50
	Total				4270.28 W
	Add 1 % Water charges on "W"				42.70
	TOTAL				4312.98 X
	Add GST (multiplying factor 0.1405) on "X"				605.97
	TOTAL				4918.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				737.84
	Total				5656.80 Z
	Add Cess @ 1% on "Z"				56.57
	Cost for 10 nos				5713.37
	Cost for each				571.34
	Say				571.35
21.13	Providing and fixing 100mm brass mortice latch & locks with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.				
	Detail of cost for 1 nos.				
	MATERIAL				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.00	210.00	210.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0014	Carpenter 1st class	day	0.17	476.00	80.92
9999	Sundry and screws	L.S.	3.64	2.00	7.28
	Total				298.20 W
	Add 1 % Water charges on "W"				2.98
	TOTAL				301.18 X
	Add GST (multiplying factor 0.1405) on "X"				42.32
	TOTAL				343.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				51.52
	Total				395.02 Z
	Add Cess @ 1% on "Z"				3.95
	Cost for 1 nos				398.97
	Cost for each				398.97
	Say				398.95
21.14	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).				
	Details of cost for 4.082kg				
	MATERIAL				
	Aluminium Section				
	(i) External member of the frame				
	(Jindal section no TU/ 3644)				
	V = 2x2.00 = 4.00 m				
	H = 2x1.20 = 2.40 m				
	Total= 6.40 m @ 0.607 kg/m = 3.885kg				
	Angle cleat 38x38x4.8 mm 50 mm long 4x0.05				
	= 0.200 m @ 0.985 kg/m = 0.197 kg sub total =				
	4.082kg.				
	Add 5% wastage = 0.204kg				
	Total = 4.286kg				
7306	Aluminium T or L sections	kilogram	4.286	190.00	814.34
589	Chromium plated Brass screws 20 mm	100 Nos	0.08	160.00	12.80
7389	Anodising 15 microns on aluminium sections	kilogram	4.286	38.00	162.87
9977	Carriage of material	L.S.	5.20	2.00	10.40
	LABOUR				0.00
	For fabrication of frame				0.00
0019	Fitter (grade 1)	day	0.04	476.00	19.04
0037	Skilled Beldar (for floor rubbing etc.)	day	0.04	320.83	12.83
0017	Beldar	day	0.02	320.83	6.42
0010	Bandhani	day	0.01	320.83	3.21

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for drilling holes, hire charges of drill, electricity charges, carriage of dash hold fastners & sundries	L.S.	5.20	2.00	10.40
	TOTAL				1052.31 W
	Add 1 % Water charges on "W"				10.52
	TOTAL				1062.83 X
	Add GST (multiplying factor 0.1405) on "X"				149.33
	TOTAL				1212.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				181.82
	Total				1393.98 Z
	Add Cess @ 1% on "Z"				13.94
	Cost for 4.082 kg				1407.92
	Cost for 1 kg				344.91
	Say				344.90
21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
21.15.1	Anodized (AC 15) aluminium				
	Detail of cost for 10 nos.				
	MATERIAL				
8660	Aluminium casement window fastener (Anodised AC 15)	each	10.00	44.00	440.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	Total				489.22 W
	Add 1 % Water charges on "W"				4.89
	TOTAL				494.11 X
	Add GST (multiplying factor 0.1405) on "X"				69.42
	TOTAL				563.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				84.53
	Total				648.07 Z
	Add Cess @ 1% on "Z"				6.48
	Cost of 10 nos				654.55
	Cost of 1 nos				65.45
	Say				65.45

21.15.2 Powder coated minimum thickness 50 micron aluminium

Detail of cost for 10 nos.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
8661	Aluminium casement window fastener (powder coated)	each	10.00	47.00	470.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
LABOUR					
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
Total					519.22 W
Add 1 % Water charges on "W"					5.19
TOTAL					524.41 X
Add GST (multiplying factor 0.1405) on "X"					73.68
TOTAL					598.09 Y
Add 15 % Contractor's profit and overheads on "Y"					89.71
Total					687.81 Z
Add Cess @ 1% on "Z"					6.88
Cost of 10 nos					694.68
Cost of 1 nos					69.47
Say					69.45

21.15.3 Polyester powder coated minimum thickness 50 micron aluminium

Detail of cost for 10 nos.

MATERIAL					
8662	Aluminium casement window fastener (polyester powder coated)	each	10.00	46.00	460.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
LABOUR					
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
Total					509.22 W
Add 1 % Water charges on "W"					5.09
TOTAL					514.31 X
Add GST (multiplying factor 0.1405) on "X"					72.26
TOTAL					586.57 Y
Add 15 % Contractor's profit and overheads on "Y"					87.99
Total					674.56 Z
Add Cess @ 1% on "Z"					6.75
Cost of 10 nos					681.30
Cost of 1 nos					68.13
Say					68.15

21.16 Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.16.1	Anodized (AC 15) aluminium				
	Detail of cost for 10 nos.				
	MATERIAL				
8663	Aluminium round shape handle (anodised AC 15) outer dia 100mm	each	10.00	53.00	530.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	Total				579.22 W
	Add 1 % Water charges on "W"				5.79
	TOTAL				585.01 X
	Add GST (multiplying factor 0.1405) on "X"				82.19
	TOTAL				667.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				100.08
	Total				767.29 Z
	Add Cess @ 1% on "Z"				7.67
	Cost of 10 nos				774.96
	Cost of 1 nos				77.50
	Say				77.50
21.16.2	Powder coated minimum thickness 50 micron aluminium				
	Detail of cost for 10 nos.				
8664	Aluminium round shape handle (powder coated) outer dia 100 mm	each	10.00	56.00	560.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	Total				609.22 W
	Add 1 % Water charges on "W"				6.09
	TOTAL				615.31 X
	Add GST (multiplying factor 0.1405) on "X"				86.45
	TOTAL				701.76 Y
	Add 15 % Contractor's profit and overheads on "Y"				105.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				807.03 Z
	Add Cess @ 1% on "Z"				8.07
	Cost of 10 nos				815.10
	Cost of 1 nos				81.51
	Say				81.50

21.16.3 Polyester powder coated minimum thickness 50 micron aluminium

Detail of cost for 10 nos.

MATERIAL

8665	Aluminium round shape handle	each	10.00	60.00	600.00
	(polyester powder coated) outer dia 100 mm				
8666	Stainless steel screws 25 mm x4 mm	100 Nos	0.40	38.00	15.20
	LABOUR				
0014	Carpenter 1st class	day	0.06	476.00	28.56
9977	Carriage of materials	L.S.	2.73	2.00	5.46
	Total				649.22 W
	Add 1 % Water charges on "W"				6.49
	TOTAL				655.71 X
	Add GST (multiplying factor 0.1405) on "X"				92.13
	TOTAL				747.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				112.18
	Total				860.02 Z
	Add Cess @ 1% on "Z"				8.60
	Cost of 10 nos				868.62
	Cost of 1 nos				86.86
	Say				86.85

Details of cost for 2.10 sqm

MATERIAL

Glass= 2.10 Sqm.

- 21.17 Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).**

Details of cost for 10.00 kg

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
MATERIAL					
Anodised aluminium grill = 10.00 kg					
Add 20% wastage = 2 kg = 12 kg					
8774	Aluminium Grill	kg	12.00	260.00	3120.00
9977	Carriage of materials	L.S.	11.00	2.00	22.00
LABOUR					
for fixing					
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0037	Skilled Beldar (for floor rubbing etc.)	day	0.25	320.83	80.21
0017	Beldar	day	0.25	320.83	80.21
0010	Bandhani	day	0.05	320.83	16.04
9999	Sundries	L.S.	25.00	2.00	50.00
TOTAL					3606.46 W
Add 1 % Water charges on "W"					36.06
TOTAL					3642.52 X
Add GST (multiplying factor 0.1405) on "X"					511.77
TOTAL					4154.30 Y
Add 15 % Contractor's profit and overheads on "Y"					623.14
Total					4777.44 Z
Add Cess @ 1% on "Z"					47.77
Cost for 10.00 kg					4825.21
Cost for 1 kg					482.52
Say					482.50

21.18 Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).

Details of cost for 2.10 sqm

MATERIAL

Glass= 2.10 Sqm.

Add Wastage @ 10% = 0.21 sqm.

Total= 2.31 sqm.

8778	Toughened glass 12 mm thickness	sqm	2.31	1747.00	4035.57
9977	Carriage of glass panes and other materials	L.S.	8.19	2.00	16.38
9999	Methylated spirit	L.S.	5.33	2.00	10.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
21.4.1	Stainless steel pivot and double action hydraulic floor spring type fixing Rate as per Item No.21.4.1 of SH:Aluminium Work LABOUR	each	1.00	2292.20	2292.20 A
0021	Glazier	day	0.90	374.50	337.05
0017	Beldar	day	0.90	320.83	288.75
9999	Sundries,sush rog cotton etc.	L.S.	1.13	2.00	2.26
	TOTAL				6982.87 W
	Add 1 % Water charges on "W-A"	4690.67			46.91
	TOTAL				7029.77 X
	Add GST (multiplying factor 0.1405) on "X-A"	4737.57			665.63
	TOTAL				7695.40 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	5403.20			810.48
	Total				8505.88 Z
	Add Cess @ 1% on "Z-A"	6213.68			62.14
	Cost for 2.10 sqm				8568.02
	Cost for 1 sqm				4080.01
	Say				4080.00
21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600				
21.19.1	Upto 5 mm depth and 5 mm width				
	Details of cost for 10m length width 5mm & depth 5mm				
	MATERIAL				
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540-F & ISO 11600 incl all taxes	each	1.00	532.00	532.00
8654	Masking tape	metre	20.00	1.95	39.00
9999	Sundries, including charges of Sealant gun machine, dhoti etc	L.S.	26.00	2.00	52.00
9977	Carriage of material	L.S.	8.40	2.00	16.80
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0023	Mason (brick layer) 1st class	day	0.40	476.00	190.40
	TOTAL				830.20 W
	Add 1 % Water charges on "W"				8.30
	TOTAL				838.50 X
	Add GST (multiplying factor 0.1405) on "X"				117.81
	TOTAL				956.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				143.45
	Total				1099.76 Z
	Add Cess @ 1% on "Z"				11.00
	Cost of 10 metre				1110.76
	Cost per metre				111.08
	Say				111.10

21.19.2 Upto 10 mm depth and 10 mm width

Details of cost for 10m length width 10mm & depth 10mm

MATERIAL

2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540-F & ISO 11600 incl all taxes	each	1.50	532.00	798.00
8654	Masking tape	metre	20.00	1.95	39.00
9999	Sundries, including charges of Sealant gun machine, dhoti etc	L.S.	26.00	2.00	52.00
9977	Carriage of material	L.S.	8.40	2.00	16.80

LABOUR

0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
	TOTAL				1143.80 W
	Add 1 % Water charges on "W"				11.44
	TOTAL				1155.24 X
	Add GST (multiplying factor 0.1405) on "X"				162.31
	TOTAL				1317.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				197.63
	Total				1515.18 Z
	Add Cess @ 1% on "Z"				15.15
	Cost of 10 metre				1530.33
	Cost per metre				153.03
	Say				153.05

21.19.3 Upto 20 mm depth and 20 mm width

Details of cost for 10m length width 20mm & depth 20mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540-F & ISO 11600 incl all taxes	each	3.00	532.00	1596.00
8654	Masking tape	metre	20.00	1.95	39.00
2630	Baker rod	metre	10.00	5.00	50.00
9999	Sundries, including charges of Sealant gun machine, dhori etc	L.S.	26.00	2.00	52.00
9977	Carriage of material	L.S.	8.40	2.00	16.80
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.75	476.00	357.00
	TOTAL				2110.80 W
	Add 1 % Water charges on "W"				21.11
	TOTAL				2131.91 X
	Add GST (multiplying factor 0.1405) on "X"				299.53
	TOTAL				2431.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				364.72
	Total				2796.16 Z
	Add Cess @ 1% on "Z"				27.96
	Cost of 10 metre				2824.12
	Cost per metre				282.41
	Say				282.40

SUB HEAD : 22.0

WATER PROOFING

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
22.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of :				
(i)	1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.				
(ii)	2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions.				
(iii)	Finishing top with stone aggregate of 10 mm to 12 mm nominal sizes spreading @ 8 cum/sqm thoroughly embedded in the 2nd layer.				
22.1.1	Using rough kota stone.				
	Details of cost for 10.00 sqm				
	MATERIAL				
	1st layer				
	Cement mortar 1:3 for fixing of stone				
	10x0.025 = 0.25 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4469.50	1117.38
	Kota stone slab = 10 sqm				
	Wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1169	Kotastone slab 25mm thick (rough cheseled)	sqm	11.00	301.00	3311.00
	Cartage 11x0.025 @ 2330 kg/m ³ = 0.64 t				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab Cement mortar 1:3	tonne	0.64	94.34	60.38
	10x0.025 = 0.25 cum				
	Wastage @ 12% = 0.03 cum				
	Total = 0.28 cum				
3.8	Rate as per Item No.3.8 of SH: MORTARS for slurry	cum	0.28	4469.50	1251.46
	Bed				
	2x10.00 @ 2kg/m ³ = 40.00 kg				
	Joints				
	4x3.7x0.02x0.037 = 0.011 cum				
	25x0.6x0.02x0.037 = 0.011 cum				
	= 0.022 cum @ 1440 kg/cum = 31.68 kg				
	Total = 71.88 kg or 0.72 t				
367	Portland Cement (OPC-43 grade)	tonne	0.072	4940.00	355.68
2209	Carriage of Cement	tonne	0.072	94.34	6.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Mortar = 0.25 + 0.28 = 0.53 cum Cement in 0.53 cum @ 5.1 q/cum = 2.7 quintal Cement in slurry = 0.73 quintal Total = 3.43 quintal @ 1 kg for 50 kg of cement i.e. 6.86 kg				
1213	Water proofing materials	kilogram	6.86	35.00	240.10
296	Stone Aggregate (Single size) : 12.5 mm nominal size @ 8 cum/sqm 1x10.3x8x1/1000 = 0.08 cum	cum	0.08	1350.00	108.00
2202	Carriage of Stone aggregate below 40 mm nominal size Labour for base mortar & kota stone laying i.e. slurry job Labour for base mortar & kota stone laying i/c slurry job	cum	0.08	106.13	8.49
0025	Mason (for plain stone work) 2nd class	day	1.20	374.50	449.40
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	1.00	320.83	320.83
	LABOUR				
	Labour for top layer & spreading stone grit				
0025	Mason (for plain stone work) 2nd class	day	1.08	374.50	404.46
0017	Beldar	day	1.08	320.83	346.50
0011	Bhisti	day	0.45	320.83	144.37
9999	Sundries	L.S.	6.24	2.00	12.48
	TOTAL				8458.14 W
	Add 1 % Water charges on "W"				84.58
	TOTAL				8542.73 X
	Add GST (multiplying factor 0.1405) on "X"				1200.25
	TOTAL				9742.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				1461.45
	Total				11204.43 Z
	Add Cess @ 1% on "Z"				112.04
	Cost for 10.00 sqm				11316.47
	Cost for 1 sqm				1131.65
	Say				1131.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
22.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :				
22.2.1	Using rough Kota stone				
	Details of cost for 10.00 sqm				
	MATERIAL				
	1st layer				
	Kota stone slab = 10 sqm				
	Wastage @ 10% = 1 sqm				
	Total = 11 sqm				
1169	Kotastone slab 25mm thick (rough cheseled)	sqm	11.00	301.000	3311.00
	Cartage 11x0.025 @ 2330 kg/m3 = 0.64t				
2216	Carriage of Stone blocks white & red sand stone & kota stone slab Cement slurry for jointing	tonne	0.64	94.338	60.38
	6x3.70 = 22.20 m				
	7x2.78 = 19.46 m				
	=41.66x0.025x0.012 = 0.013 cum				
	Cement slurry for filling 20 mm gap				
	10x0.02 = 0.200 cum				
	= 0.213 cum @ 1440 kg/cum = 306.70 kg or				
	0.307 t				
367	Portland Cement (OPC-43 grade)	tonne	0.31	4940.000	1531.40
2209	Carriage of Cement	tonne	0.31	94.338	29.24
	Cement plaster 1:3 with neat cement punning				
13.9.2	Rate as per item no 13.9.2 of SH : Finishing	sqm	10.00	316.15	3161.51 A
	Water proofing material				
	Cement slurry = 0.31 t = 310 kg				
	Cement plaster 1:3 @ 13.62 q/100sqm				
	= 136.20 kg				
	Total = 446.20 kg @ 1 kg for 50 kg of cement i.e.				
	8.90 kg				
1213	Water proofing materials	kilogram	8.90	35.00	311.50
	LABOUR				
	Fixing of Kota stone and applying cement slurry.				
0025	Mason (for plain stone work) 2nd class	day	3.00	374.50	1123.50
0017	Beldar	day	3.00	320.83	962.49
0018	Coolie	day	1.00	320.83	320.83
9999	Sundries and scaffolding	L.S.	18.2	2.00	36.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				10848.25 W
	Add 1 % Water charges on "W-A"	7686.74			76.87
	TOTAL				10925.12 X
	Add GST (multiplying factor 0.1405) on "X-A"	7763.61			1090.79
	TOTAL				12015.91 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	8854.40			1328.16
	Total				13344.07 Z
	Add Cess @ 1% on "Z-A"	10182.55			101.83
	Cost for 10.00sqm				13445.89
	Cost for 1 sqm				1344.59
	Say				1344.60

22.3 Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:

- (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.
- (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.
- (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg.per sqm of area.
- (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).

Details of cost for 10 sqm

MATERIAL

Cement slurry @ 4.4 kg/sqm

= 44.00 kg or 0.044 t

367	Portland Cement (OPC-43 grade)	tonne	0.044	4940.00	217.36
2209	Carriage of Cement	tonne	0.044	94.34	4.15

MATERIAL

Cement plaster 1:3 (20 mm thick)

3.8	Rate as per Item No.3.8 of SH: MORTARS	cum	0.224	4469.50	1001.17

LABOUR

0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.10	320.83	352.91
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
313	Blown type petroleum bitumen of penetration	tonne	0.017	34000.00	578.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	85/25 of approved quality = 10x1.70= 17 kg = 0.017 t				
2211	Carriage of Tar bitumen	tonne	0.017	106.13	1.80
3002	Polyvinyle chloride sheet 400 micron thick	sqm	10.00	40.00	400.00
9977	CARRIAGE	L.S.	13.00	2.00	26.00
1213	Water proofing materials	kilogram	3.60	35.00	126.00
	@ 1 kg per 50 kg of cement used Cement slurry = 44 kg Cement plaster 1:3 10x(13.62x100)/100= 136.2 kg Total = 180.2 kg/50 = 3.60 kg LABOUR				
0031	Painter	day	0.20	374.50	74.90
0017	Beldar	day	1.33	320.83	426.70
0030	Mistry	day	0.06	476.00	28.56
9999	Sundries	L.S.	7.28	2.00	14.56
	TOTAL				3956.62 W
	Add 1 % Water charges on "W"				39.57
	TOTAL				3996.18 X
	Add GST (multiplying factor 0.1405) on "X"				561.46
	TOTAL				4557.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				683.65
	Total				5241.29 Z
	Add Cess @ 1% on "Z"				52.41
	Cost for 10 sqm				5293.71
	Cost for 1 sqm				529.37
	Say				529.35

22.4 Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :

22.4.1 Serrated with central bulb (225 mm wide, 8-11 mm thick)

Details of cost for 100 metres

MATERIAL

7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	100.00	200.00	20000.00

LABOUR

0017	Beldar	day	2.00	320.83	641.66
9999	Sundries & wire etc.	L.S.	26.00	2.00	52.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				20693.66 W
	Add 1 % Water charges on "W"				206.94
	TOTAL				20900.60 X
	Add GST (multiplying factor 0.1405) on "X"				2936.53
	TOTAL				23837.13 Y
	Add 15 % Contractor's profit and overheads on "Y"				3575.57
	Total				27412.70 Z
	Add Cess @ 1% on "Z"				274.13
	Cost for 100 metres				27686.83
	Cost for 1 metre				276.87
	Say				276.85

22.4.2 Dumb bell with central bulb (180 mm wide, 8 mm thick)

Details of cost for 100 metres

MATERIAL

7428	Water stops Dumb bell with central bulb	metre	100.00	160.00	16000.00

LABOUR

0017	Beldar	day	2.00	320.83	641.66

9999	Sundries & wire etc.	L.S.	26.00	2.00	52.00

	TOTAL				16693.66 W

	Add 1 % Water charges on "W"				166.94

	TOTAL				16860.60 X

	Add GST (multiplying factor 0.1405) on "X"				2368.91

	TOTAL				19229.51 Y

	Add 15 % Contractor's profit and overheads on "Y"				2884.43

	Total				22113.94 Z

	Add Cess @ 1% on "Z"				221.14

	Cost for 100 metres				22335.08

	Cost for 1 metre				223.35

	Say				223.35

22.4.3 Kickers (320 mm wide, 5 mm thick)

Details of cost for 100 metres

MATERIAL

7429	Kickers	metre	100.00	185.00	18500.00

LABOUR

0017	Beldar	day	2.00	320.83	641.66

9999	Sundries & wire etc.	L.S.	26.00	2.00	52.00

	TOTAL				19193.66 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				191.94
	TOTAL				19385.60 X
	Add GST (multiplying factor 0.1405) on "X"				2723.68
	TOTAL				22109.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				3316.39
	Total				25425.66 Z
	Add Cess @ 1% on "Z"				254.26
	Cost for 100 metres				25679.92
	Cost for 1 metre				256.80
	Say				256.80
22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :				
(a)	First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.				
(b)	Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.				
	The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
	Details of cost for 10 sqm				
	Cement $10 \times (0.488 + 0.242) = 7.30$ kg				
	Sealing fillets 10×0.5 kg / sqm = 5.00 kg				
	Total = 12.30 kg = 0.012 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.012	4940.00	59.28
2209	Carriage of Cement	tonne	0.012	94.34	1.13
	Bonding material $1.6 \text{ kg} \times 30 \times 2 = 96$ kg				
	Bitumen (blown/residual type)				
	$10 \times (0.25 + 0.126) = 3.79$ kg				
	Sealing fillets 10×0.10 kg / sqm = 1.00 kg				
	Wastage @ 5% on 4.79 kg = 0.24 kg				
	Total = 5.03 kg Say 5.00 kg				
8501	Polymer modified cementation coating	kilogram	5.00	140.00	700.00
	LABOUR				
0040	Mason (average)	day	2.00	374.50	749.00
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.25	320.83	80.21
9999	Sundries, brushes etc	L.S.	15.60	2.00	31.20
	TOTAL				2262.48 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				22.62
	TOTAL				2285.10 X
	Add GST (multiplying factor 0.1405) on "X"				321.06
	TOTAL				2606.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				390.92
	Total				2997.09 Z
	Add Cess @ 1% on "Z"				29.97
	Cost for 10 sqm				3027.06
	Cost for 1 sqm				302.71
	Say				302.70
22.6	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:				
(a)	after surface preparation, first layer of slurry of cement @ 0.488 kg/sqmmixed with water proofing cement compound @ 0.253 kg/sqm.				
(b)	laying second layer of Fibre glass cloth when the first layer is still green.Overlaps of joints of fibre cloth should not be less than 10 cm.				
(c)	third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.				
(d)	fourth and final layer of brick tiling with cement mortar (which will be paidfor separately.				
	For the purpose of measurement the entire treated surface will be measured."				
	Details of cost for 10 sqm				
	MATERIAL				
	Cement $10 \times (1.289 + 0.488) = 17.77$ kg				
	Sealing fillets @ 10% = 1.77 kg Total = 19.54kg =				
	0.020 tonne				
367	Portland Cement (OPC-43 grade)	tonne	0.02	4940.00	98.80
2209	Carriage of Cement	tonne	0.02	94.34	1.89
	Bonding material $1.6 \text{ kg} \times 30 \times 2 = 96$ kg				
	Bitumen (blown/residual type)				
	$10 \times (0.253 + 0.67) = 9.23$ kg				
	Wastage @ 5% = 0.46 kg				
	Total = 9.69 kg				
8501	Polymer modified cementation coating	kilogram	9.69	140.00	1356.60
	Fibre Glass cloth = 10.00 sqm				
	Wastage @ 10 % - 1.00 sqm				
	Total = 11.00 sqm				
8502	Fibre glass cloth	sqm	11.00	25.00	275.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0040	Mason (average)	day	2.00	374.50	749.00
0017	Beldar	day	1.00	320.83	320.83
0011	Bhisti	day	0.25	320.83	80.21
9999	Sundries, brushes etc	L.S.	23.40	2.00	46.80
	TOTAL				2929.12 W
	Add 1 % Water charges on "W"				29.29
	TOTAL				2958.42 X
	Add GST (multiplying factor 0.1405) on "X"				415.66
	TOTAL				3374.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				506.11
	Total				3880.18 Z
	Add Cess @ 1% on "Z"				38.80
	Cost for 10 sqm				3918.99
	Cost for 1 sqm				391.90
	Say				391.90

22.7 Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:

- (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.
- (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.
- (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.
- (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
(e)	The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.				
	Detail of cost for 10 sqm i) Cement slury				
367	Portland Cement (OPC-43 grade) ii) Cement mortar 1:5 (1 cement: 5 coarse sand)	tonne	0.0275	4940.00	135.85
3.10	Rate as per Item No.3.10 of SH:Mortars iii) Roof treatment with brick bat and cement mortar	cum	0.224	3462.65	775.63
	MATERIAL				
285	Brick Aggregate (Single size) : 63 mm nominal size	cum	0.94	650.00	611.00
2260	Carriage of Brick aggregate Cement mortar 1:5	cum	0.94	115.36	108.44
3.10	Rate as per Item No.3.10 of SH:Mortars	cum	0.5	3462.65	1731.33
	LABOUR				
0017	Beldar	day	1.75	320.83	561.45
0011	Bhisti	day	0.28	320.83	89.83
0023	Mason (brick layer) 1st class	day	0.05	476.00	23.80
0024	Mason (brick layer) 2nd class	day	0.05	374.50	18.73
0028	Mate	day	0.04	320.83	12.83
	Extra labour for ramming				
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries iv) Cement slury	L.S.	13.65	2.00	27.30
367	Portland Cement (OPC-43 grade)	tonne	0.0275	4940.00	135.85
0017	Beldar	day	0.2	320.83	64.17
	v) 20 mm cement plaster 1:4 (1 cement : 4 coarse sand)				
13.6.1	Rate as per item no 13.6.1 of SH : Finishing	sqm	10.00	255.80	2558.01 A
	vi) Water proofing compound vi) Water proofing compound 27.50+27.50+69.40+124.00 = 248.40 kg @ 1 kg per bag of cement				
1213	Water proofing materials	kilogram	5.00	35.00	175.00
	Extra for making chequers for 10 sqm				
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	10.5	82.00	861.00
0024	Mason (brick layer) 2nd class	day	0.36	374.50	134.82
0017	Beldar	day	0.36	320.83	115.50
9999	Chequer plate	L.S.	13.65	2.00	27.30
	Add labour for laying 20 mm bed mortar				
0024	Mason (brick layer) 2nd class	day	0.54	374.50	202.23
0017	Beldar	day	0.54	320.83	173.25
0011	Bhisti	day	0.45	320.83	144.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				8767.90 W
	Add 1 % Water charges on "W-A"	6209.89			62.10
	TOTAL				8830.00 X
	Add GST (multiplying factor 0.1405) on "X-A"	6271.99			881.21
	TOTAL				9711.21 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	7153.20			1072.98
	Total				10784.19 Z
	Add Cess @ 1% on "Z-A"	8226.18			82.26
	Cost for 10 sqm				10866.45
	Cost for one sqm				1086.65
	Say				1086.65
22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic decimeter per square metre, including preparation of surface but excluding grading complete with :				
22.8.1	Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322				
	Detail of cost for 30 sqm				
	Blown or / and residual bitumen applied hot				
	= $2 \times 1.45 \times 30 = 87$ kg				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality Hession felt type 3 Grade I (hessian base self finished bitumen felt) = 30sqm	tonne	0.087	34000.00	2958.00
	Add for over lapping @ 10% = 3 sqm. Total = 33 Sqm				
322	Bitumen felt :Type 3 grade 1	sqm	33.00	70.00	2310.00
1177	Stone grit 6 mm and down size or pea sized gravel 30x6=180 cudm	cum	0.18	800.00	144.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.18	106.13	19.10
2211	Carriage of Tar bitumen	tonne	0.162	106.13	17.19
	0.087tx2.7x.001x33=0.162t				
370	Coal (steam)	quintal	0.174	440.00	76.56
	= 2 quintals/t of bitumen i.e. $2 \times 0.087 = 0.174q$				
2200	Carriage of steam coal	tonne	0.0174	121.29	2.11
9999	Praparing roof surface, sutting groove and making good etc. LABOUR	L.S.	134.55	2.00	269.10
0031	Painter	day	2.16	374.50	808.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	3.24	320.83	1039.49
0030	Mistry	day	0.18	476.00	85.68
9999	Sundries, brushes etc.	L.S.	6.76	2.00	13.52
	TOTAL				7743.68 W
	Add 1 % Water charges on "W"				77.44
	TOTAL				7821.11 X
	Add GST (multiplying factor 0.1405) on "X"				1098.87
	TOTAL				8919.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				1338.00
	Total				10257.98 Z
	Add Cess @ 1% on "Z"				102.58
	Cost of 30.00 Sqm.				10360.56
	Cost of 1.00 Sqm.				345.35
	Say				345.35
22.9	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45, 1.20 and 1.45 Kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS : 1322 (Hessian based self finished bitumen felt) ,sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete.				
	Detail of cost for 30 sqm				
	Blown or / and residual bitumen applied hot (1.45+1.20+1.45)x30=123kg				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.123	34000.00	4182.00
	Bitumen felt Type 3 grade 1 (hessian base self finished bitumen felt)				
	= 60 sqm.+				
	Add for over lapping @ 10% = 6 sqm. Total =66 Sqm				
322	Bitumen felt :Type 3 grade 1	sqm	66.00	70.00	4620.00
2211	Carriage of Tar bitumen	tonne	0.273	106.13	28.97
	0.123t+2.7x.001x66=0.273t				
1177	Stone grit 6 mm and down size or pea sized gravel	cum	0.18	800.00	144.00
	30x6=180cudm				
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.18	106.13	19.10
370	Coal (steam)	quintal	0.246	440.00	108.24
	= 2 quintals/t of bitumen i.e. 2x0.123=0.246q				
2200	Carriage of steam coal	tonne	0.0246	121.29	2.98
9999	Praparing roof surface, sutting groove and making good etc.	L.S.	134.55	2.00	269.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	3.24	374.50	1213.38
0017	Beldar	day	4.86	320.83	1559.23
0030	Mistry	day	0.20	476.00	95.20
9999	Sundries, brushes etc.	L.S.	6.76	2.00	13.52
	TOTAL				12255.73 W
	Add 1 % Water charges on "W"				122.56
	TOTAL				12378.29 X
	Add GST (multiplying factor 0.1405) on "X"				1739.15
	TOTAL				14117.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				2117.62
	Total				16235.06 Z
	Add Cess @ 1% on "Z"				162.35
	Cost of 30.00 Sqm.				16397.41
	Cost of 1.00 Sqm.				546.58
	Say				546.60
22.10	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete.				
	Details of cost for 30 sqm				
	Blown bitumen applied hot				
	(1.45+1.20+1.70)x30 = 130.5 kg.				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality Bitumen felt type B grade I (fibre base self finished bitumen felt) = 60 sqm. Add for over lapping @ 10% = 6 sqm. Total =66 Sqm	tonne	0.1305	34000.00	4437.00
318	Bitumen felt fibre base (vegetable or animal):Type 2 grade 1	sqm	66.00	70.00	4620.00
2211	Carriage of Tar bitumen (0.131 t+2.22x.001x66 = 0.275t)	tonne	0.275	106.13	29.19
1177	Stone grit 6 mm and down size or pea sized gravel 30x6=180cudm CARRIAGE:	cum	0.18	800.00	144.00
2202	Carriage of Stone aggregate below 40 mm nominal size Fuel (Steam coal) = 2 quintals/t of bitumen i.e. 0.1305=0.261q	cum	0.18	106.13	19.10
370	Coal (steam)	quintal	0.261	440.00	114.84
2200	Carriage of steam coal	tonne	0.0261	121.29	3.17
9999	Praparing roof surface, sutting groove and making good etc.	L.S.	134.55	2.00	269.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	4.32	374.50	1617.84
0017	Beldar	day	6.48	320.83	2078.98
0030	Mistry	day	0.36	476.00	171.36
9999	Sundries, brushes etc.	L.S.	6.76	2.00	13.52
	TOTAL				13518.09 W
	Add 1 % Water charges on "W"				135.18
	TOTAL				13653.27 X
	Add GST (multiplying factor 0.1405) on "X"				1918.29
	TOTAL				15571.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				2335.73
	Total				17907.29 Z
	Add Cess @ 1% on "Z"				179.07
	Cost of 30.00 Sqm.				18086.37
	Cost of 1.00 Sqm.				602.88
	Say				602.90
22.11	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete.				
	Detail of cost for 30 sqm				
	Blown or / and residual bitumen applied hot (1.45+1.20+1.70)x30 =130.5 kg.				
313	Blown type petroleum bitumen of penetration 85/25 of approved quality Bitumen felt as per IS 7193 Grade II (fibre base self finished bitumen felt) = 60 sqm. + Add for over lapping @ 10% = 6 sqm. Total =66 Sqm	tonne	0.1305	34000.00	4437.00
318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	66.00	70.00	4620.00
2211	Carriage of Tar bitumen (0.131t+3.08x.001x66=334t.)	tonne	0.334	106.13	35.45
1177	Stone grit 6 mm and down size or pea sized gravel 30x6=180cudm	cum	0.18	800.00	144.00
2202	Carriage of Stone aggregate below 40 mm nominal size Fuel (Steam coal) = 2 quintals/t of bitumen i.e. 2x0.1305=0.261q	cum	0.18	106.13	19.10
370	Coal (steam)	quintal	0.261	440.00	114.84
2200	Carriage of steam coal	tonne	0.0261	121.29	3.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Praparing roof surface, sutting groove and making good etc. LABOUR	L.S.	134.55	2.00	269.10
0031	Painter	day	4.32	374.50	1617.84
0017	Beldar	day	6.48	320.83	2078.98
0030	Mistry	day	0.36	476.00	171.36
9999	Sundries, brushes etc.	L.S.	6.76	2.00	13.52
	TOTAL				13524.35 W
	Add 1 % Water charges on "W"				135.24
	TOTAL				13659.60 X
	Add GST (multiplying factor 0.1405) on "X"				1919.17
	TOTAL				15578.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				2336.82
	Total				17915.59 Z
	Add Cess @ 1% on "Z"				179.16
	Cost of 30.00 Sqm.				18094.74
	Cost of 1.00 Sqm.				603.16
	Say				603.15

22.12 Supplying and applying bituminous solution primer on roof and / or wall surface at 0.24 litre per sqm.

Details of cost for 10 sq. metres

MATERIAL

316	Bitumen solution primer of approved quality	litre	2.40	45.00	108.00
9977	CARRIAGE LABOUR	L.S.	1.43	2.00	2.86
0031	Painter	day	0.17	374.50	63.67
0017	Beldar	day	0.17	320.83	54.54
9999	Sundries brushes etc.	L.S.	13.52	2.00	27.04
	TOTAL				256.11 W
	Add 1 % Water charges on "W"				2.56
	TOTAL				258.67 X
	Add GST (multiplying factor 0.1405) on "X"				36.34
	TOTAL				295.01 Y
	Add 15 % Contractor's profit and overheads on "Y"				44.25
	Total				339.26 Z
	Add Cess @ 1% on "Z"				3.39
	Cost of 10.00 Sqm.				342.65
	Cost of 1.00 Sqm.				34.27
	Say				34.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
22.13	Deduct for omitting in water proofing treatment final course of spreading stone grit 6 mm down size or pea sized gravel :				
22.13.1	at 6 cudm per sqm				
	Details of cost for 10 sqm.				
	MATERIAL				
1177	Stone grit 6 mm and down size or pea sized gravel 6x10 = 60 cudm	cum	0.06	800.00	48.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.06	106.13	6.37
9999	Labour for screening and spreading grit	L.S.	21.58	2.00	43.16
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				111.05 W
	Add 1 % Water charges on "W"				1.11
	TOTAL				112.16 X
	Add GST (multiplying factor 0.1405) on "X"				15.76
	TOTAL				127.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				19.19
	Total				147.10 Z
	Add Cess @ 1% on "Z"				1.47
	Cost of 10.00 Sqm.				148.58
	Cost of 1.00 Sqm.				14.86
	Say				14.85
22.13.2	at 8 cudm per sqm				
	Details of cost for 10 sqm.				
	MATERIAL				
1177	Stone grit 6 mm and down size or pea sized gravel 6x10 = 60 cudm	cum	0.08	800.00	64.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.08	106.13	8.49
9999	Labour for screening and spreading grit	L.S.	26.91	2.00	53.82
9999	Sundries	L.S.	6.76	2.00	13.52
	TOTAL				139.83 W
	Add 1 % Water charges on "W"				1.40
	TOTAL				141.23 X
	Add GST (multiplying factor 0.1405) on "X"				19.84
	TOTAL				161.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.16
	Total				185.23 Z
	Add Cess @ 1% on "Z"				1.85
	Cost of 10.00 Sqm.				187.08
	Cost of 1.00 Sqm.				18.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				18.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
22.14	Grading roof for water proofing treatment with				
22.14.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
	Details of cost for one cum.				
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1350.00	904.50
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1350.00	297.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.89	106.13	94.46
982	Coarse sand	cum	0.45	1350.00	607.50
2203	Carriage of Coarse sand	cum	0.45	106.13	47.76
367	Portland Cement (OPC-43 grade)	tonne	0.32	4940.00	1580.80
2209	Carriage of Cement	tonne	0.32	94.34	30.19
	LABOUR				
0017	Beldar	day	1.63	320.83	522.95
0011	Bhisti	day	0.70	320.83	224.58
0023	Mason (brick layer) 1st class	day	0.10	476.00	47.60
9999	Sundries, brushes etc.	L.S.	14.30	2.00	28.60
002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with hooper	day	0.07	800.00	56.00
012	Vibrator (Needle type 40 mm)	day	0.07	370.00	25.90
9999	Sundries for laying in terrace	L.S.	45.76	2.00	91.52
	TOTAL				4559.36 W
	Add 1 % Water charges on "W"				45.59
	TOTAL				4604.95 X
	Add GST (multiplying factor 0.1405) on "X"				647.00
	TOTAL				5251.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				787.79
	Total				6039.74 Z
	Add Cess @ 1% on "Z"				60.40
	Cost of one cum				6100.13
	Say				6100.15
22.14.2	Cement mortar 1:3 (1 cement : 3 coarse sand)				
	Details of cost for one cum.				
	MATERIAL				
	Cement mortar 1:3				
3.8	Rate as per Item No.3.8 of SH:Mortars	cum	1.00	4469.50	4469.50
	LABOUR				
0040	Mason (average)	day	1.00	374.50	374.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.50	320.83	160.42
0018	Coolie	day	5.00	320.83	1604.15
9999	Sundries	L.S.	11.70	2.00	23.40
	TOTAL				7273.63 W
	Add 1 % Water charges on "W"				72.74
	TOTAL				7346.36 X
	Add GST (multiplying factor 0.1405) on "X"				1032.16
	TOTAL				8378.53 Y
	Add 15 % Contractor's profit and overheads on "Y"				1256.78
	Total				9635.31 Z
	Add Cess @ 1% on "Z"				96.35
	Cost of one cum				9731.66
	Say				9731.65

22.14.3 Cement mortar 1:4 (1cement : 4 coarse sand)

Details of cost for one cum.

MATERIAL

Cement mortar 1:4

3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	1.00	3815.05	3815.05

LABOUR

0040	Mason (average)	day	1.00	374.50	374.50
0017	Beldar	day	2.00	320.83	641.66
0011	Bhisti	day	0.50	320.83	160.42
0018	Coolie	day	5.00	320.83	1604.15
9999	Sundries	L.S.	10.79	2.00	21.58
	TOTAL				6617.35 W
	Add 1 % Water charges on "W"				66.17
	TOTAL				6683.53 X
	Add GST (multiplying factor 0.1405) on "X"				939.04
	TOTAL				7622.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				1143.38
	Total				8765.95 Z
	Add Cess @ 1% on "Z"				87.66
	Cost of one cum				8853.61
	Say				8853.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

22.22 Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc.. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.

Details of cost for 1.00 Kg

MATERIAL :

352	Integral crystalline admixture	kg	1.00	272.00	272.00

LABOUR :

9999	For measuring, making and mixing etc..	L.S.	5.80	2.00	11.60

9999	Sundries	L.S.	1.15	2.00	2.30

9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50

TOTAL					289.40 W

Add 1 % Water charges on "W"					2.89

TOTAL					292.29 X

Add GST (multiplying factor 0.1405) on "X"					41.07

TOTAL					333.36 Y

Add 15 % Contractor's profit and overheads on "Y"					50.00

Total					383.37 Z

Add Cess @ 1% on "Z"					3.83

Cost for 1.00 Kg					387.20

Say					387.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.				
	Details of cost for 10 Sqm				
	MATERIAL				
8511	Fibre reinforced elastomeric liquid water proofing membrane 10.76 litre + 0.538 (Add wastage 5%) = 11.30 litre	litre	11.30	198.69	2245.20
9977	Carriage of materials	L.S.	1.43	2.00	2.86
	LABOUR				0.00
0018	Coolie	day	0.67	320.83	214.96
0031	Painter	day	0.67	374.50	250.92
9999	Wire brush brushes, rollers etc.	L.S.	6.76	2.00	13.52
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				2743.57 W
	Add 1 % Water charges on "W"				27.44
	TOTAL				2771.00 X
	Add GST (multiplying factor 0.1405) on "X"				389.33
	TOTAL				3160.33 Y
	Add 15 % Contractor's profit and overheads on "Y"				474.05
	Total				3634.38 Z
	Add Cess @ 1% on "Z"				36.34
	Cost of 10 sqm				3670.72
	Cost of 1 sqm				367.07
	Say				367.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

22.23 Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.

22.23.1 For vertical surface two coats @0.70 kg per sqm

Details of cost for 1.00 sqm MATERIAL :

351	Integral crystalline slurry (2 x .70kg / sq.mtr. = 1.40kg)	kg	1.40	238.00	333.20
	LABOUR				
9999	For application of waterproofing material	L.S.	11.55	2.00	23.10
9999	Sundries	L.S.	1.15	2.00	2.30
9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50
	TOTAL				362.10 w
	Add 1 % Water charges on "W"				3.62
	TOTAL				365.72 X
	Add GST (multiplying factor 0.1405) on "X"				51.38
	TOTAL				417.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				62.57
	Total				479.67 Z
	Add Cess @ 1% on "Z"				4.80
	Cost for 1.00 sqm				484.47
	Say				484.45

22.23.2 For horizontal surface one coat @1.10 kg per sqm.

Details of cost for 1.00 sqm MATERIAL :

351	Integral crystalline slurry (1 x 1.10kg / sq.mtr. = 1.10kg)	kilogram	1.10	238.00	261.80
	LABOUR :				
9999	For application of waterproofing material	L.S.	5.75	2.00	11.50
9999	Sundries	L.S.	1.15	2.00	2.30
9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				279.10 W
	Add 1 % Water charges on "W"				2.79
	TOTAL				281.89 X
	Add GST (multiplying factor 0.1405) on "X"				39.61
	TOTAL				321.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				48.22
	Total				369.72 Z
	Add Cess @ 1% on "Z"				3.70
	Cost for 1.00 sqm				373.42
	Say				373.40

22.23A Providing & Applying polymer modified, flexible cementitious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge.

Details of cost for 10 Sqm

MATERIAL

8512	Cementitious water proofing coating with elastic polymers 14.35 kg + 0.72 (Add wastage 5%) = 15.07 litre	kg	15.07	189.13	2850.19
9977	Carriage of materials	L.S.	1.56	2.00	3.12
	LABOUR				
0018	Coolie	day	0.23	320.83	73.79
0031	Painter	day	0.46	374.50	172.27
9999	Wire brush brushes, rollers etc.	L.S.	7.15	2.00	14.30
9999	Sundries	L.S.	8.06	2.00	16.12
	TOTAL				3129.79 W
	Add 1 % Water charges on "W"				31.30
	TOTAL				3161.09 X
	Add GST (multiplying factor 0.1405) on "X"				444.13
	TOTAL				3605.22 Y
	Add 15 % Contractor's profit and overheads on "Y"				540.78
	Total				4146.00 Z
	Add Cess @ 1% on "Z"				41.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Cost of 10 sqm 4187.46

Cost of 1 sqm 418.75

Say 418.75

- 22.24 Providing and applying integral crystalline (dry shake) of hydrophilic in nature for waterproofing treatment to the RCC structures like basement raft, foundation slab, sewage & water treatment plant slab, warehouses floor, parking structures and water tank base slab etc. sprinkled @0.60kg per sqm or higher as recommended by the manufacturer's specification over the lean concrete of above cited structures. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 85%, compared control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline dryshake shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-incharge. The product performance shall carry guarantee for 10 years against any leakage.**

Details of cost for 1.00 sqm MATERIAL :

354	Integral crystalline dry shake	kilogram	0.60	360.00	216.00
	LABOUR				
9999	For measuring and sprinkling of waterproofing material	L.S.	11.55	2.00	23.10
9999	Sundries	L.S.	1.15	2.00	2.30
9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50
	TOTAL				244.90 W
	Add 1 % Water charges on "W"				2.45
	TOTAL				247.35 X
	Add GST (multiplying factor 0.1405) on "X"				34.75
	TOTAL				282.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				42.32
	Total				324.42 Z
	Add Cess @ 1% on "Z"				3.24
	Cost for 1.00 sqm				327.66
	Say				327.65

- 22.24A Providing & Applying high quality acrylic modified resin based texture of Dholpur/ Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kgs/10 sqm to form film of 1- 1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litres/10 sqm, complete as the direction of Engineer -in-Charge.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Sqm				
	MATERIAL				
8513	Acrylic modified resin based texture	kg	45.19	36.00	1626.84
	43.04 kg + 2.15 (Add wastage 5%) = 45.19 kg				
	Quantity taken for cost using once = 10 sqm Top coat with premium acrylic exterior paint (two or more coats)				
13.112.1	Rate as per Item No.13.112.1 of SH:Finishing	sqm	10.00	71.70	716.98 A
9977	Carriage of materials	L.S.	3.90	2.00	7.80
	LABOUR				
0018	Coolie	day	0.56	320.83	179.66
0023	Mason (brick layer) 1st class	day	0.56	476.00	266.56
9999	Sundries and scaffolding	L.S.	40.00	2.00	80.00
	TOTAL				2877.85 W
	Add 1 % Water charges on "W-A"	2160.86			21.61
	TOTAL				2899.46 X
	Add GST (multiplying factor 0.1405) on "X-A"	2182.47			306.64
	TOTAL				3206.09 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2489.11			373.37
	Total				3579.46 Z
	Add Cess @ 1% on "Z-A"	2862.48			28.62
	Cost of 10 sqm				3608.08
	Cost of 1 sqm				360.81
	Say				360.80

22.25 Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystalline mortar shall conform to the EN 1504-3 having compressive strength Class R4 (?45 MPa) and adhesive bond strength Class R3 (?1.5 MPa). The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.

22.25.1 For sealing cracks and faulty construction joints, routed out/making U-shape groove size 25x25mm and then primed the area with integral crystalline slurry @0.05kg/running meter and while the surface is tacky filled the groove upto surface with crystalline mortar @1.50kg/running meter. Once crystalline mortar is touch dry then finally applied two coats of integral crystalline slurry @0.05kg/running meter per coat.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 1.00 meter					
MATERIAL :					
353	Crystalline Mortar @1.50 kg per meter	kilogram	1.50	215.00	322.50
351	Integral crystalline slurry for priming and finishing (3 x 0.05kg / meter) = 0.15kg	kilogram	0.15	238.00	35.70
LABOUR					
9999	For making crystalline mortar and repair work etc..	L.S.	14.45	2.00	28.90
9999	Sundries	L.S.	1.15	2.00	2.30
9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50
TOTAL					392.90 W
Add 1 % Water charges on "W"					3.93
TOTAL					396.83 X
Add GST (multiplying factor 0.1405) on "X"					55.75
TOTAL					452.58 Y
Add 15 % Contractor's profit and overheads on "Y"					67.89
Total					520.47 Z
Add Cess @ 1% on "Z"					5.20
Cost for 1.00 meter					525.68
Say					525.70

22.25.2 For patching of tie rod holes, prepared tie rod hole surface and then primed the area with integral crystalline slurry @0.070kg/sqm and while the surface is tacky repair and then filled the tie rod holes with crystalline mortar@0.040kg per hole. The crystalline mortar should be tightly rodded into tie rod holes or packed tightly (For 25x25x25 mm tie rod hole, use 0.040kg to fill the hole)

Details of cost for 1 no. hole

MATERIAL :

353	Crystalline mortar@0.040 kg per hole	kilogram	0.04	215.00	8.60
LABOUR					
9999	For making crystalline mortar and repair work etc..	L.S.	2.90	2.00	5.80
9999	Sundries	L.S.	0.30	2.00	0.60
9999	Carriage of material and tools cost etc..	L.S.	0.25	2.00	0.50
TOTAL					15.50 W
Add 1 % Water charges on "W"					0.16
TOTAL					15.66 X
Add GST (multiplying factor 0.1405) on "X"					2.20
TOTAL					17.85 Y
Add 15 % Contractor's profit and overheads on "Y"					2.68
Total					20.53 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Add Cess @ 1% on "Z" 0.21

Cost for each hole 20.74

Say 20.75

22.26 Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc.. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.

Details of cost for 1.00 meter

MATERIAL :

355	Swellable type water stop tape	metre	1.00	365.00	365.00

(Crystalline sealing compound)

356	Swellable type water stop primer	Litre	0.016	1540.00	24.64

(@3.78 litre per 240 running meter)

LABOUR

9999	For application of primer and swellable water stop	L.S.	8.65	2.00	17.30

9999	Sundries	L.S.	1.15	2.00	2.30

9999	Carriage of material and tools cost etc..	L.S.	1.75	2.00	3.50

TOTAL 412.74 W

Add 1 % Water charges on "W" 4.13

TOTAL 416.87 X

Add GST (multiplying factor 0.1405) on "X" 58.57

TOTAL 475.44 Y

Add 15 % Contractor's profit and overheads on "Y" 71.32

Total 546.75 Z

Add Cess @ 1% on "Z" 5.47

Cost for 1.00 metre 552.22

Say 552.20

SUB HEAD : 23.0

RAIN WATER HARVESTING & TUBEWELLS

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.1	Boring / drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
23.1.1	All types of soil				
23.1.1.1	300 mm dia				
	Details of cost for 35 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140				
	Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 35 metre				15358.20
	Cost of 1 metre				438.81
	Say				438.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.1.1.2 350 mm dia					
	Details of cost for 32 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140 Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 32 metre				15358.20
	Cost of 1 metre				479.94
	Say				479.95

23.1.1.3 400 mm dia

Details of cost for 25 metre

MACHINERY :

020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140 Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 25 metre				15358.20
	Cost of 1 metre				614.33
	Say				614.35

23.1.2 Rocky strata including Boulders

23.1.2.1 300 mm dia

Details of cost for 16 metre

MACHINERY :

020	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	7000.00	6300.00
1235	Diesel oil	litre	6.00	73.50	441.00
	Extra diesel required for boring in rocky strata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20

Transportation charges for to and fro to site
(assume 140m of bore for one shifting)
(2 x30)/140

Loading, unloading & Errection charges of
drilling Rig Machine

LABOUR

0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra lab	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	0.75	320.83	240.62
0017	Beldar	day	3.00	320.83	962.49
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				12062.34 W
	Add 1 % Water charges on "W"				120.62
	TOTAL				12182.96 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				1711.71
	TOTAL				13894.67 Y
	Add 15 % Contractor's profit and overheads on "Y"				2084.20
	Total				15978.87 Z
	Add Cess @ 1% on "Z"				159.79
	Cost for 16 metre				16138.66
	Cost of 1 metre				1008.67
	Say				1008.65
23.1.2.2 350 mm dia					
	Details of cost for 16 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	7000.00	6300.00
1235	Diesel oil	litre	8.00	73.50	588.00
	Extra diesel required for boring in rockstrata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	1.00	320.83	320.83
0017	Beldar	day	4.00	320.83	1283.32
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				12610.38 W
	Add 1 % Water charges on "W"				126.10
	TOTAL				12736.48 X
	Add GST (multiplying factor 0.1405) on "X"				1789.48
	TOTAL				14525.95 Y
	Add 15 % Contractor's profit and overheads on "Y"				2178.89
	Total				16704.85 Z
	Add Cess @ 1% on "Z"				167.05
	Cost for 16 metre				16871.90
	Cost of 1 metre				1054.49
	Say				1054.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.1.2.3 400 mm dia					
	Details of cost for 16 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	7000.00	6300.00
1235	Diesel oil	litre	16.00	73.50	1176.00
	Extra diesel required for boring in rock strata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140 Loading, unloading & Erection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	1.20	320.83	385.00
0017	Beldar	day	8.00	320.83	2566.64
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				14545.86 W
	Add 1 % Water charges on "W"				145.46
	TOTAL				14691.32 X
	Add GST (multiplying factor 0.1405) on "X"				2064.13
	TOTAL				16755.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				2513.32
	Total				19268.77 Z
	Add Cess @ 1% on "Z"				192.69
	Cost for 16 metre				19461.46
	Cost of 1 metre				1216.34
	Say				1216.35

23.2 Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.

23.2.1 All types of soil

23.2.1.1 300 mm dia

Details of cost for 30 metre

MACHINERY :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 30 metre				15358.20
	Cost of 1 metre				511.94
	Say				511.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.2.1.2 350 mm dia					
	Details of cost for 27 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 27 metre				15358.20
	Cost of 1 metre				568.82
	Say				568.80

23.2.1.3 400 mm dia

Details of cost for 20 metre

MACHINERY :

020	Hydraulic Excavator (3D) with driver and fuel.	day	1.00	7000.00	7000.00
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	2.00	320.83	641.66
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				11479.01 W
	Add 1 % Water charges on "W"				114.79
	TOTAL				11593.80 X
	Add GST (multiplying factor 0.1405) on "X"				1628.93
	TOTAL				13222.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				1983.41
	Total				15206.14 Z
	Add Cess @ 1% on "Z"				152.06
	Cost for 20 metre				15358.20
	Cost of 1 metre				767.91
	Say				767.90

23.2.2 Rocky strata including Boulders

23.2.2.1 300 mm dia

Details of cost for 16 metre

MACHINERY :

020	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	7000.00	6300.00
1235	Diesel oil	litre	10.00	73.50	735.00
	Extra diesel required for boring in rockstrata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	1.00	320.83	320.83
0017	Beldar	day	5.00	320.83	1604.15
0013	Blacksmith 2nd class	day	0.70	374.50	262.15
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				13059.48 W
	Add 1 % Water charges on "W"				130.59
	TOTAL				13190.07 X
	Add GST (multiplying factor 0.1405) on "X"				1853.21
	TOTAL				15043.28 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				2256.49
	Total				17299.77 Z
	Add Cess @ 1% on "Z"				173.00
	Cost for 16 metre				17472.77
	Cost of 1 metre				1092.05
	Say				1092.05
23.2.2.2	350 mm dia				
	Details of cost for 16 metre				
	MACHINERY :				
020	Hydraulic Excavator (3D) with driver and fuel.	day	0.90	7000.00	6300.00
1235	Diesel oil	litre	12.00	73.50	882.00
	Extra diesel required for boring in rockstrata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Erection charges of drilling Rig Machine				
	LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	1.00	320.83	320.83
0017	Beldar	day	6.00	320.83	1924.98
0013	Blacksmith 2nd class	day	0.75	374.50	280.88
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				13546.04 W
	Add 1 % Water charges on "W"				135.46
	TOTAL				13681.50 X
	Add GST (multiplying factor 0.1405) on "X"				1922.25
	TOTAL				15603.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				2340.56
	Total				17944.31 Z
	Add Cess @ 1% on "Z"				179.44
	Cost for 16 metre				18123.75
	Cost of 1 metre				1132.73
	Say				1132.75

23.2.2.3 400 mm dia

Details of cost for 14 metre

MACHINERY :

020	Hydraulic Excavator (3D) with driver and fuel.	day	0.95	7000.00	6650.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1235	Diesel oil	litre	16.00	73.50	1176.00
	Extra diesel required for boring in rockstrata				
005	Hire charges of Diesel Truck - 9 tonne	day	0.4286	2000.00	857.20
	Transportation charges for to and fro to site (assume 140m of bore for one shifting) (2 x30)/140Loading, unloading & Errection charges of drilling Rig Machine LABOUR				
0017	Beldar	day	4.00	320.83	1283.32
0030	Mistry	day	1.00	476.00	476.00
7763	Water supply tanker of 5000 litre capacity Extra labour to assist M/C operator & security	each	1.00	900.00	900.00
0034	Rock Hole Driller	day	1.20	320.83	385.00
0017	Beldar	day	8.00	320.83	2566.64
0013	Blacksmith 2nd class	day	1.00	374.50	374.50
0016	Chowkidar	day	1.00	320.83	320.83
	TOTAL				14989.49 W
	Add 1 % Water charges on "W"				149.89
	TOTAL				15139.38 X
	Add GST (multiplying factor 0.1405) on "X"				2127.08
	TOTAL				17266.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				2589.97
	Total				19856.43 Z
	Add Cess @ 1% on "Z"				198.56
	Cost for 14 metre				20055.00
	Cost of 1 metre				1432.50
	Say				1432.50
23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
23.3.1	100 mm nominal size dia				
	Details of cost for 100 metres				
	MATERIAL				
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	100.00	442.00	44200.00
2319	Carriage of Spun iron S & S pipes	100 metre	0.50	231.9783	115.99
	150 mm dia				
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	for lowering				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
	TOTAL				44636.82 W
	Add 1 % Water charges on "W"				446.37
	TOTAL				45083.19 X
	Add GST (multiplying factor 0.1405) on "X"				6334.19
	TOTAL				51417.38 Y
	Add 15 % Contractor's profit and overheads on "Y"				7712.61
	Total				59129.98 Z
	Add Cess @ 1% on "Z"				591.30
	Cost of 100 metres				59721.28
	Cost of 1 metre				597.21
	Say				597.20
23.3.2	150 mm nominal size dia				
	Details of cost for 100 metres				
	MATERIAL				
7745	uPVC blind pipe 150 mm dia as per IS: 12818	metre	100.00	508.62	50862.00
2321	Carriage of Spun iron S & S pipes	100 metre	0.50	386.63	193.32
	150 mm dia				
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR				
	for lowering				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries (Adhesive etc.)	L.S.	10.07	2.00	20.14
	TOTAL				51396.29 W
	Add 1 % Water charges on "W"				513.96
	TOTAL				51910.25 X
	Add GST (multiplying factor 0.1405) on "X"				7293.39
	TOTAL				59203.64 Y
	Add 15 % Contractor's profit and overheads on "Y"				8880.55
	Total				68084.18 Z
	Add Cess @ 1% on "Z"				680.84
	Cost of 100 metres				68765.03
	Cost of 1 metre				687.65
	Say				687.65
23.3.3	200 mm nominal size dia				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 metres				
	MATERIAL				
7746	uPVC blind pipe 200 mm dia as per IS: 12818	metre	100.00	788.12	78812.00
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	0.50	628.92	314.46
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR				
	for lowering				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
	TOTAL				79447.29 W
	Add 1 % Water charges on "W"				794.47
	TOTAL				80241.76 X
	Add GST (multiplying factor 0.1405) on "X"				11273.97
	TOTAL				91515.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				13727.36
	Total				105243.09 Z
	Add Cess @ 1% on "Z"				1052.43
	Cost of 100 metres				106295.52
	Cost of 1 metre				1062.96
	Say				1062.95
23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
23.4.1	100 mm nominal size dia				
	Details of cost for 100 metres				
	MATERIAL				
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	100.00	480.00	48000.00
2319	Carriage of Spun iron S & S pipes	100 metre	0.50	231.9783	115.99
	150 mm dia				
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR				
	for lowering				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries (Adhesive etc.)	L.S.	10.07	2.00	20.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				48456.96	W
	Add 1 % Water charges on "W"				484.57	
	TOTAL				48941.53	X
	Add GST (multiplying factor 0.1405) on "X"				6876.28	
	TOTAL				55817.81	Y
	Add 15 % Contractor's profit and overheads on "Y"				8372.67	
	Total				64190.49	Z
	Add Cess @ 1% on "Z"				641.90	
	Cost of 100 metres				64832.39	
	Cost of 1 metre				648.32	
	Say				648.30	
23.4.2	150 mm nominal size dia					
	Details of cost for 100 metres					
	MATERIAL					
7751	uPVC slotted pipe 150 mm dia as per IS: 12818	metre	100.00	550.00	55000.00	
2321	Carriage of Spun iron S & S pipes	100 metre	0.50	386.63	193.32	
	150 mm dia					
	Qty = 50 to consider 50% of carriage as per 2321					
	LABOUR					
	for lowering					
0017	Beldar	day	0.50	320.83	160.42	
0018	Coolie	day	0.50	320.83	160.42	
9999	Sundries (Adhesive etc.)	L.S.	10.07	2.00	20.14	
	TOTAL				55534.29	W
	Add 1 % Water charges on "W"				555.34	
	TOTAL				56089.63	X
	Add GST (multiplying factor 0.1405) on "X"				7880.59	
	TOTAL				63970.22	Y
	Add 15 % Contractor's profit and overheads on "Y"				9595.53	
	Total				73565.75	Z
	Add Cess @ 1% on "Z"				735.66	
	Cost of 100 metres				74301.41	
	Cost of 1 metre				743.01	
	Say				743.00	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.4.3	200 mm nominal size dia				
	Details of cost for 100 metres				
	MATERIAL				
7752	uPVC slotted pipe 200 mm dia as per IS: 12818	metre	100.00	840.00	84000.00
2322	Carriage of Spun iron S & S pipes	100 metre	0.50	628.92	314.46
	200 mm dia				
	Qty = 50 to consider 50% of carriage as per 2321				
	LABOUR				
	for lowering				
0017	Beldar	day	0.50	320.83	160.42
0018	Coolie	day	0.50	320.83	160.42
9999	Sundries (Adhesive etc.)	L.S.	13.42	2.00	26.84
	TOTAL				84662.13 W
	Add 1 % Water charges on "W"				846.62
	TOTAL				85508.75 X
	Add GST (multiplying factor 0.1405) on "X"				12013.98
	TOTAL				97522.73 Y
	Add 15 % Contractor's profit and overheads on "Y"				14628.41
	Total				112151.14 Z
	Add Cess @ 1% on "Z"				1121.51
	Cost of 100 metres				113272.65
	Cost of 1 metre				1132.73
	Say				1132.75
23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.				
	Details of cost for 1 cum.				
	MATERIAL				
7753	Boulder 50 mm to 200 mm	cum	1.00	850.00	850.00
	including carriage				
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				932.21 W
	Add 1 % Water charges on "W"				9.32
	TOTAL				941.53 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				132.28
	TOTAL				1073.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.07
	Total				1234.89 Z
	Add Cess @ 1% on "Z"				12.35
	Total				1247.24
	Cost of 1 Cum.				1247.24
	Say				1247.25
23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.				
	Details of cost for 1 cum.				
	MATERIAL				
7754	Gravel 5 mm to 10 mm including carriage	cum	1.00	850.00	850.00
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				932.21 W
	Add 1 % Water charges on "W"				9.32
	TOTAL				941.53 X
	Add GST (multiplying factor 0.1405) on "X"				132.28
	TOTAL				1073.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				161.07
	Total				1234.89 Z
	Add Cess @ 1% on "Z"				12.35
	Total				1247.24
	Cost of 1 Cum.				1247.24
	Say				1247.25

23.7 Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.

Details of cost for 1 cum.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7755	Gravel 1.5 mm to 2 mm including carriage	cum	1.00	850.00	850.00
	LABOUR				
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				932.21
	Add 1 % Water charges on "W"				9.32
	TOTAL				941.53
	Add GST (multiplying factor 0.1405) on "X"				132.28
	TOTAL				1073.81
	Add 15 % Contractor's profit and overheads on "Y"				161.07
	Total				1234.89
	Add Cess @ 1% on "Z"				12.35
	Total				1247.24
	Cost of 1 Cum.				1247.24
	Say				1247.25
23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.				
	Details of cost for 1 cum.				
	MATERIAL				
7772	Pea Gravel including carriage	cum	1.00	950.00	950.00
	LABOUR				
0017	Beldar	day	0.30	320.83	96.25
9999	Sundries	L.S.	1.00	2.00	2.00
	TOTAL				1048.25
	Add 1 % Water charges on "W"				10.48
	TOTAL				1058.73
	Add GST (multiplying factor 0.1405) on "X"				148.75
	TOTAL				1207.48
	Add 15 % Contractor's profit and overheads on "Y"				181.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				1388.61 Z
	Add Cess @ 1% on "Z"				13.89
	Total				1402.49
	Cost of 1 Cum.				1402.49
	Say				1402.50
23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.				
	Details of cost for 1 No. RCC drain cover				
	MATERIAL				
7762	Precast R.C.C. perforated slab	each	1.00	875.00	875.00
	LABOUR				
9988	Carriage and fixing charges	L.S.	15.00	2.00	30.00
	TOTAL				905.00 W
	Add 1 % Water charges on "W"				9.05
	TOTAL				914.05 X
	Add GST (multiplying factor 0.1405) on "X"				128.42
	TOTAL				1042.47 Y
	Add 15 % Contractor's profit and overheads on "Y"				156.37
	Total				1198.85 Z
	Add Cess @ 1% on "Z"				11.99
	Total				1210.83
	Cost of 1 No.				1210.83
	Say				1210.85
23.1	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.				
23.10.1	100 mm nominal size dia having minimum wall thickness 5.00 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Details of cost for 30 metre					
MATERIAL					
7757	M.S. pipe 100 mm dia casing pipe	metre	30.00	800.00	24000.00
7764	M.S. socket 100 mm dia	each	5.00	125.00	625.00
2343	Carriage of ductile iron pipes (k7) 100 mm dia including loading and unloading Painting with anticorrosive Paint 3.14 x.0110 x30.00=10.36 sqm.	100 metre	0.30	231.98	69.59
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing	sqm	10.36	66.90	693.11 A
LABOUR					
0017	Beldar	day	1.35	320.83	433.12
0030	Mistry	day	0.50	476.00	238.00
TOTAL					26058.83 W
Add 1 % Water charges on "W-A"					25365.71 253.66
TOTAL					26312.48 X
Add GST (multiplying factor 0.1405) on "X-A"					25619.37 3599.52
TOTAL					29912.00 Y
Add 15 % Contractor's profit and overheads on "Y-A"					29218.89 4382.83
Total					34294.84 Z
Add Cess @ 1% on "Z-A"					33601.73 336.02
Cost for 30 metre					34630.86
Cost of 1 metre					1154.36
Say					1154.35

23.10.2 150 mm nominal size dia having minimum wall thickness 5.00 mm

Details of cost for 30 metre

MATERIAL

7743	M.S. pipe 150 mm dia casing pipe	metre	30.00	1126.00	33780.00
7765	M.S. socket 150 mm dia	each	5.00	205.00	1025.00
2344	Carriage of cast iron pipes 150 mm dia including loading and unloading Painting with Anticorrosive Paint 3.14 x0.160 x30.00=15.07 sqm.	100 metre	0.30	386.63	115.99
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing	sqm	15.07	66.90	1008.22 A
LABOUR					
0017	Beldar	day	1.40	320.83	449.16
0030	Mistry	day	0.50	476.00	238.00
TOTAL					36616.37 W
Add 1 % Water charges on "W-A"					35608.15 356.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	TOTAL				36972.46	X
	Add GST (multiplying factor 0.1405) on "X-A"	35964.23			5052.97	
	TOTAL				42025.43	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	41017.21			6152.58	
	Total				48178.01	Z
	Add Cess @ 1% on "Z-A"	47169.79			471.70	
	Cost for 30 metre				48649.71	
	Cost of 1 metre				1621.66	
	Say				1621.65	

23.10.3 200 mm nominal size dia having minimum wall thickness 5.40 mm

Details of cost for 30 metre

MATERIAL

7744	M.S. pipe 200 mm dia casing pipe	metre	30.00	1400.00	42000.00	
7766	M.S. socket 200 mm dia	each	5.00	265.00	1325.00	
2345	Carriage of cast iron pipes 200 mm dia including loading and unloading Painting with anticorrosive Paint 3.14 x0.210 x30.00=20.25 sqm.	100 metre	0.30	628.92	188.68	
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing	sqm	20.25	66.90	1354.78	A
	LABOUR					
0017	Beldar	day	1.35	320.83	433.12	
0030	Mistry	day	0.50	476.00	238.00	
	TOTAL				45539.58	W
	Add 1 % Water charges on "W-A"	44184.80			441.85	
	TOTAL				45981.42	X
	Add GST (multiplying factor 0.1405) on "X-A"	44626.64			6270.04	
	TOTAL				52251.47	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	50896.69			7634.50	
	Total				59885.97	Z
	Add Cess @ 1% on "Z-A"	58531.19			585.31	
	Cost for 30 metre				60471.28	
	Cost of 1 metre				2015.71	
	Say				2015.70	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
23.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.				
23.11.1	100 mm nominal size dia				
	Details of cost for 30 metre				
	MATERIAL				
7757	M.S. pipe 100 mm dia casing pipe	metre	30.00	800.00	24000.00
7764	M.S. socket 100 mm dia	each	5.00	125.00	625.00
9999	Sundries	L.S.	906.04	2.00	1812.08
2343	Carriage of ductile iron pipes (k7)	100 metre	0.30	231.98	69.59
	100 mm dia including loading and unloading				
	Painting				
	with anticorrosive Paint 3.14 x.11 x30.00=10.36				
	sqm				
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing	sqm	10.36	66.90	693.11 A
	LABOUR				
0017	Beldar	day	1.35	320.83	433.12
0030	Mistry	day	0.50	476.00	238.00
	TOTAL				
					27870.91 W
	Add 1 % Water charges on "W-A"	27177.79			271.78
	TOTAL				
					28142.68 X
	Add GST (multiplying factor 0.1405) on "X-A"	27449.57			3856.66
	TOTAL				
					31999.35 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31306.24			4695.94
	Total				
					36695.28 Z
	Add Cess @ 1% on "Z-A"	36002.17			360.02
	Cost for 30 metre				
					37055.31
	Cost of 1 metre				
					1235.18
	Say				
					1235.20
23.11.2	150 mm nominal size dia				
	Details of cost for 30 metre				
	MATERIAL				
7743	M.S. pipe 150 mm dia casing pipe	metre	30.00	1126.00	33780.00
7765	M.S. socket 150 mm dia	each	5.00	205.00	1025.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
9999	Extra for making slots	L.S.	1208.05	2.00	2416.10	
2344	Carriage of cast iron pipes 150 mm dia including loading and unloading Painting with anticorrosive Paint 3.14 x.160 x30.00=15.07 sqm.	100 metre	0.30	386.63	115.99	
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing LABOUR	sqm	15.07	66.90	1008.22	A
0017	Beldar	day	1.40	320.83	449.16	
0030	Mistry	day	0.50	476.00	238.00	
	TOTAL				39032.47	W
	Add 1 % Water charges on "W-A"	38024.25			380.24	
	TOTAL				39412.72	X
	Add GST (multiplying factor 0.1405) on "X-A"	38404.49			5395.83	
	TOTAL				44808.55	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	43800.33			6570.05	
	Total				51378.60	Z
	Add Cess @ 1% on "Z-A"	50370.37			503.70	
	Cost for 30 metre				51882.30	
	Cost of 1 metre				1729.41	
	Say				1729.40	

23.11.3 200 mm nominal size dia

Details of cost for 30 metre

MATERIAL

7744	M.S. pipe 200 mm dia casing pipe	metre	30.00	1400.00	42000.00	
7766	M.S. socket 200 mm dia	each	5.00	265.00	1325.00	
9999	Extra for making slots	L.S.	1208.05	2.00	2416.10	
2345	Carriage of cast iron pipes 200 mm dia including loading and unloading Painting with anticorrosive Paint 3.14 x 0.210 x30.00=20.25 sqm.	100 metre	0.30	628.92	188.68	
13.65.1	Rate as per Item No.13.65.1 of SH:Finishing LABOUR	sqm	20.25	66.90	1354.78	A
0017	Beldar	day	1.40	320.83	449.16	
0030	Mistry	day	0.50	476.00	238.00	
	TOTAL				47971.72	W
	Add 1 % Water charges on "W-A"	46616.94			466.17	
	TOTAL				48437.89	X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add GST (multiplying factor 0.1405) on "X-A"	47083.11			6615.18	
	TOTAL				55053.06	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	53698.28			8054.74	
	Total				63107.81	Z
	Add Cess @ 1% on "Z-A"	61753.03			617.53	
	Cost for 30 metre				63725.34	
	Cost of 1 metre				2124.18	
	Say				2124.20	
23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.					
	Details of cost for 8 Hours					
	MACHINERY :					
040	Air compressor 250 cfm with two leads for pneumatic cutters/ hammers.	day	1.00	1600.00	1600.00	
	MATERIAL					
1235	Diesel oil	litre	48.00	73.50	3528.00	
	TOTAL				5128.00	W
	Add 1 % Water charges on "W"				51.28	
	TOTAL				5179.28	X
	Add GST (multiplying factor 0.1405) on "X"				727.69	
	TOTAL				5906.97	Y
	Add 15 % Contractor's profit and overheads on "Y"				886.05	
	Total				6793.01	Z
	Add Cess @ 1% on "Z"				67.93	
	Cost of 8 Hours				6860.94	
	Cost of 1 Hour				857.62	
	Say				857.60	
23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:					
23.13.1	100 mm dia					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No				
	MATERIAL				
	100mm dia MS screwed cap with locking arrangement				
7760	M.S. cap 100 mm dia	each	1.00	135.00	135.00
	Add 5% labour facor on X				6.75
	TOTAL				141.75 W
	Add 1 % Water charges on "W"				1.42
	TOTAL				143.17 X
	Add GST (multiplying factor 0.1405) on "X"				20.12
	TOTAL				163.28 Y
	Add 15 % Contractor's profit and overheads on "Y"				24.49
	Total				187.77 Z
	Add Cess @ 1% on "Z"				1.88
	Total				189.65
	Cost of 1 No				189.65
	Say				189.65

23.13.2 150 mm dia

	Details of cost for 1 No				
	MATERIAL				
	100mm dia MS screwed cap with locking arrangement				
7747	M.S. cap 150 mm dia	each	1.00	150.00	150.00
	Add 5% labour facor on X				7.50
	TOTAL				157.50 W
	Add 1 % Water charges on "W"				1.58
	TOTAL				159.08 X
	Add GST (multiplying factor 0.1405) on "X"				22.35
	TOTAL				181.43 Y
	Add 15 % Contractor's profit and overheads on "Y"				27.21
	Total				208.64 Z
	Add Cess @ 1% on "Z"				2.09
	Total				210.73
	Cost of 1 No				210.73
	Say				210.75

23.13.3 200 mm dia

Details of cost for 1 No
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
7748	100mm dia MS screwed cap with locking arrangement M.S. cap 200 mm dia	each	1.00	200.00	200.00	
	Add 5% labour facor on X				10.00	
	TOTAL				210.00	W
	Add 1 % Water charges on "W"				2.10	
	TOTAL				212.10	X
	Add GST (multiplying factor 0.1405) on "X"				29.80	
	TOTAL				241.90	Y
	Add 15 % Contractor's profit and overheads on "Y"				36.29	
	Total				278.19	Z
	Add Cess @ 1% on "Z"				2.78	
	Total				280.97	
	Cost of 1 No				280.97	
	Say				280.95	
23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.					
23.14.1	100 mm clamp					
	Details of cost for 1 No					
	MATERIAL					
	Clamps made of MS flat of size 100x10mm thick1x2mt.x7.80 kq per mt.=15.60 kq.					
10.1	Rate as per Item No.10.1 of SH:Steel Work	kg	15.60	77.55	1209.81	A
9999	Sundries, nuts and bolts etc.	L.S.	25.00	2	50.00	
	TOTAL				1259.81	
	Add 1 % Water charges on "W-A"	50.00			0.50	
	TOTAL				1260.31	X
	Add GST (multiplying factor 0.1405) on "X-A"	50.50			7.10	
	TOTAL				1267.40	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	57.60			8.64	
	Total				1276.04	Z
	Add Cess @ 1% on "Z-A"	66.23			0.66	
	Total				1276.70	
	Cost of 1 No				1276.70	
	Say				1276.70	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
23.14.2	150 mm clamp					
	Details of cost for 1 No					
	MATERIAL					
	Clamps made of MS flat of size 100x10mm thick1x2.10 mt.x7.80 kg per mt.=16.38 kg.					
10.1	Rate as per Item No.10.1 of SH:Steel Work	kg	16.38	77.55	1270.30	A
9999	Sundries, nuts and bolts etc.	L.S.	30.00	2	60.00	
	TOTAL				1330.30	W
	Add 1 % Water charges on "W-A"	60.00			0.60	
	TOTAL				1330.90	X
	Add GST (multiplying factor 0.1405) on "X-A"	60.60			8.51	
	TOTAL				1339.41	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	69.11			10.37	
	Total				1349.78	Z
	Add Cess @ 1% on "Z-A"	79.48			0.79	
	Total				1350.57	
	Cost of 1 No				1350.57	
	Say				1350.55	
23.14.3	200 mm clamp					
	Details of cost for 1 No					
	MATERIAL					
	Clamps made of MS flat of size 100x10mm thick1x2.40 mt.x7.80 kg per mt.=18.72 kg.					
10.1	Rate as per Item No.10.1 of SH:Steel Work	kg	18.72	77.55	1451.74	A
9999	Sundries, nuts and bolts etc.	L.S.	30.00	2.00	60.00	
	TOTAL				1511.74	W
	Add 1 % Water charges on "W-A"	60.00			0.60	
	TOTAL				1512.34	X
	Add GST (multiplying factor 0.1405) on "X-A"	60.60			8.51	
	TOTAL				1520.85	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	69.11			10.37	
	Total				1531.22	Z
	Add Cess @ 1% on "Z-A"	79.48			0.79	
	Total				1532.01	
	Cost of 1 No				1532.01	
	Say				1532.00	
23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).					
23.15.1	100 mm dia					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 No				
	MATERIAL				
7761	M.S. bail plug 100 mm dia	each	1.00	160.00	160.00
9999	Sundries	L.S.	5.00	2.00	10.00
	TOTAL				170.00 W
	Add 1 % Water charges on "W"				1.70
	TOTAL				171.70 X
	Add GST (multiplying factor 0.1405) on "X"				24.12
	TOTAL				195.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.37
	Total				225.20 Z
	Add Cess @ 1% on "Z"				2.25
	Total				227.45
	Cost of 1 No				227.45
	Say				227.45

23.15.2 150 mm dia

	Details of cost for 1 No				
	MATERIAL				
7749	M.S bail plug 150 mm dia	each	1.00	200.00	200.00
9999	Sundries	L.S.	5.00	2.00	10.00
	TOTAL				210.00 W
	Add 1 % Water charges on "W"				2.10
	TOTAL				212.10 X
	Add GST (multiplying factor 0.1405) on "X"				29.80
	TOTAL				241.90 Y
	Add 15 % Contractor's profit and overheads on "Y"				36.29
	Total				278.19 Z
	Add Cess @ 1% on "Z"				2.78
	Total				280.97
	Cost of 1 No				280.97
	Say				280.95

23.15.3 200 mm dia

	Details of cost for 1 No				
	MATERIAL				
7750	M.S bail plug 200 mm dia	each	1.00	220.00	220.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	5.00	2.00	10.00
	TOTAL				230.00 W
	Add 1 % Water charges on "W"				2.30
	TOTAL				232.30 X
	Add GST (multiplying factor 0.1405) on "X"				32.64
	TOTAL				264.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				39.74
	Total				304.68 Z
	Add Cess @ 1% on "Z"				3.05
	Total				307.73
	Cost of 1 No				307.73
	Say				307.75

SUB HEAD : 24.0

CONSERVATION OF HERITAGE BUILDINGS

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
24.1	Raking out joints of stone masonry surface to the required width and depth, with due care and precaution, by mechanical / manual means, including preparing and cleaning the surface for re-pointing/ refilling of joints, including disposal of rubbish to the dumping ground within 50 metre lead.				
	Detail of cost for 10 sqm				
	LABOUR				
0017	Beldar	day	0.53	320.83	170.04
0018	Coolie	day	0.08	320.83	25.67
0011	Bhisti	day	0.07	320.83	22.46
9999	Sundries	L.S.	1.43	2.00	2.86
	TOTAL				221.02 W
	Add 1 % Water charges on "W"				2.21
	TOTAL				223.23 X
	Add GST (multiplying factor 0.1405) on "X"				31.36
	TOTAL				254.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				38.19
	Total				292.79 Z
	Add Cess @ 1% on "Z"				2.93
	Cost of 10.00 sqm				295.72
	Cost of 1.00 sqm				29.57
	Say				29.55
24.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose.

(2) The payment will be made once only for execution of all items for such works.

Details of cost for area $2.5 \times 9.0 = 202.50$ sqm

MATERIAL

Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost

Taking slvage value after full use of material @ 25% of cost

7397	Base jack	each	0.30	145.00	43.50

Qty taken for cost of using once

$= 14 \times 0.85 / 40 = 0.2975$

4009	Mild steel tubes hot finished welded type	kilogram	80.02	57.00	4561.14

Vertical standard 2.5m length $= 7 \times 2 \times 9 \times 2.5 =$

315.00 mSide support 6.00m

length $= 3 \times 2 \times 6.00 = 36.00$ mHorizonatal support

3.00m length $= 18 \times 3 \times 3.00 = 162.00$ mTotal $= 1026.00$

m @ 3.67 kg/m $= 3765.42$ kgQty taken for cost of

usina once $= 3765.42 \times 0.85 /$

$40 = 80.02$ kg

7387	Spigot for standard jointing	kg	2.63	43.00	113.09

$7 \times 2 \times 9 = 126$ nos x 0.40m length $= 50.40\text{m}$

@ $2.46\text{kg} / \text{m} = 123.98\text{kg}$ Qty taken for cost of using

once $= 123.98 \times 0.85 / 40 = 2.63\text{kg}$

1034	Bolts and nuts upto 300 mm in length	quintal	0.008	4800.00	38.40

$2 \times 7 \times 2 \times 9 = 252$ nos @ 0.15 kg each $= 37.80$ kg

$= 0.378\text{q}$ Qty taken for cost of using once $=$

$0.378 \times 0.85 / 40 = 0.008\text{q}$

7346	Double coupler	each	2.555	46.00	117.53

Clamp coupler for fixing MS tube with scaffolding

$2 \times 3 \times 2 + 2 \times 18 \times 3 = 120$ nosQty taken for cost of

usina once $= 120 \times 0.85 / 40 = 2.55$ nos

7398	Challies	each	1.91	765.00	1461.15

3 nos x 18 lines $= 54$ nosTwo level plate

challies $= 2 \times 18$ lines $= 36$ nosTotal $= 90$ nosQty taken

for cost of using once $= 90 \times 0.85 /$

$40 = 1.9125$ nos

7399	Cup lock	each	27.92	48.00	1340.16

For Vertical standards $= (5 \times 7 \times 2 \times 9 = 630$ nos)

$+ (2 \times 18 \times 19 = 694$ nos)Total $= 1314$ nosQty taken for

cost of usina once $= 1314 \times 0.85 / 40 = 27.92$

2205	Carriage of Steel	tonne	6.054	94.34	571.12

40mm dia MS pipe $= 3765.42\text{kg}$ 25mm

spigot $= 123.98\text{kg}$ Nuts & bolts $= 37.80\text{kg}$ clamp $= 120$

nos @ 1.00kg each $= 120.00\text{kg}$ Challies $= 90$ nos @

15.00kg each $= 1350.00\text{kg}$ Cup locks $= 1314$ nos @

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	0.50kg each= 657.00kgTotal=6054.20kg=6.054 tonne LABOUR				
0019	Fitter (grade 1)	day	15.50	476.00	7378.00
0017	Beldar	day	31.00	320.83	9945.73
9999	Sundries	L.S.	1035	2.00	2070.00
	TOTAL				27639.82 W
	Add 1 % Water charges on "W"				276.40
	TOTAL				27916.22 X
	Add GST (multiplying factor 0.1405) on "X"				3922.23
	TOTAL				31838.45 Y
	Add 15 % Contractor's profit and overheads on "Y"				4775.77
	Total				36614.22 Z
	Add Cess @ 1% on "Z"				366.14
	Cost of 202.50 sqm				36980.36
	Cost of 1.00 sqm				182.62
	Say				182.60

24.3 Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).

Detail of cost for 10 sqm

MATERIAL

7767	Stone cleaning chemical approved by ASI 1 kg teepal of 3% solution for 10 sqm area for 10sqm = 0.10 liter	litre	0.10	295.00	29.50
7771	Liquid Amonia 5%	litre	0.17	160.00	27.20
	LABOUR (for applying the camical Salution)				0.00
0013	Blacksmith 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.20	320.83	64.17
0028	Mate	day	0.10	320.83	32.08

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cleaning T & P & its manitance cost (Jet Pump, electrice cable, horse pipe, waler pipe, Nozel safety belt Rope & mantance cost and safety machine for window etc.)	L.S.	1.00	2.00	2.00
6501	Sand zone V (Jamuna)	cum	0.0283	1225.00	34.67
	LABOUR (for pressure cleaning)				
0013	Blacksmith 2nd class	day	0.40	374.50	149.80
0017	Beldar	day	0.80	320.83	256.66
0028	Mate	day	0.10	320.83	32.08
	TOTAL				703.06 W
	Add 1 % Water charges on "W"				7.03
	TOTAL				710.09 X
	Add GST (multiplying factor 0.1405) on "X"				99.77
	TOTAL				809.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				121.48
	Total				931.34 Z
	Add Cess @ 1% on "Z"				9.31
	Cost of 10.00 sqm				940.66
	Cost of 1.00 sqm				94.07
	Say				94.05

24.4 Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).

Detail of cost for 10 sqm

MATERIAL

7775	Sodium pentachlorophenate	Kg	0.10	550.00	55.00
	LABOUR				
0013	Blacksmith 2nd class	day	0.25	374.50	93.63
0017	Beldar	day	0.25	320.83	80.21
0028	Mate	day	0.125	320.83	40.10
	TOTAL				268.94 W
	Add 1 % Water charges on "W"				2.69
	TOTAL				271.63 X
	Add GST (multiplying factor 0.1405) on "X"				38.16
	TOTAL				309.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				46.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				356.26 Z
	Add Cess @ 1% on "Z"				3.56
	Cost of 10.00 sqm				359.82
	Cost of 1.00 sqm				35.98
	Say				36.00

24.5 Ruled / Flush pointing on Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).

Detail of cost for 10 sqm

MATERIAL

3.19	Rate as per Item No.3.19 of SH:Mortars	cum	0.023	2482.10	57.09
	LABOUR				
0040	Mason (average)	day	0.92	374.50	344.54
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.93	320.83	298.37
9999	Sundries	L.S.	4.03	2.00	8.06
	TOTAL				1147.60 W
	Add 1 % Water charges on "W"				11.48
	TOTAL				1159.07 X
	Add GST (multiplying factor 0.1405) on "X"				162.85
	TOTAL				1321.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				198.29
	Total				1520.21 Z
	Add Cess @ 1% on "Z"				15.20
	Cost of 10.00 sqm				1535.41
	Cost of 1.00 sqm				153.54
	Say				153.55

24.6 Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).

Detail of cost for 10 sqm

MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.19	Rate as per Item No.3.19 of SH:Mortars	cum	0.023	2482.10	57.09
	LABOUR				
0040	Mason (average)	day	0.92	374.50	344.54
0018	Coolie	day	1.37	320.83	439.54
0011	Bhisti	day	0.93	320.83	298.37
9999	Sundries	L.S.	4.03	2.00	8.06
	TOTAL				1147.60 W
	Add 1 % Water charges on "W"				11.48
	TOTAL				1159.07 X
	Add GST (multiplying factor 0.1405) on "X"				162.85
	TOTAL				1321.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				198.29
	Total				1520.21 Z
	Add Cess @ 1% on "Z"				15.20
	Cost of 10.00 sqm				1535.41
	Cost of 1.00 sqm				153.54
	Say				153.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
24.7	Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding).				
	Detail of cost for 5 sqm				
	MATERIAL				
7769	Stone surface strengthening chemical approved by ASI	litre	1.00	900.00	900.00
	LABOUR				
0031	Painter	day	0.15	374.50	56.18
0017	Beldar	day	0.15	320.83	48.12
9999	Sundries	L.S.	6.00	2.00	12.00
	TOTAL				1016.30 W
	Add 1 % Water charges on "W"				10.16
	TOTAL				1026.46 X
	Add GST (multiplying factor 0.1405) on "X"				144.22
	TOTAL				1170.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				175.60
	Total				1346.28 Z
	Add Cess @ 1% on "Z"				13.46
	Cost of 5.00 sqm				1359.75
	Cost of 1.00 sqm				271.95
	Say				271.95

24.8 Applying breathable, non-reactive, antifungal, and water repellant Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineerin-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).

Detail of cost for 45 sqm

MATERIAL

7768	Water repallent chemical approved by ASI	litre	1.00	1200.00	1200.00
7770	Turpentine oil	litre	12.00	55.00	660.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0031	Painter	day	1.00	374.50	374.50
0017	Beldar	day	1.00	320.83	320.83
9999	Handling / Transportation charges	L.S.	6.00	2.00	12.00
	TOTAL				2567.33 W
	Add 1 % Water charges on "W"				25.67
	TOTAL				2593.00 X
	Add GST (multiplying factor 0.1405) on "X"				364.32
	TOTAL				2957.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				443.60
	Total				3400.92 Z
	Add Cess @ 1% on "Z"				34.01
	Cost of 45.00 sqm				3434.93
	Cost of 1.00 sqm				76.33
	Say				76.35

SUB HEAD : 25.0

STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

25.1 Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).

Details of cost for 6.50 kg
Width of the unit 1.6 m
Height of the unit 4.2 m
Area of Single Unit 6.72 sqm
Total Area 6.72 sqm, No of Panels 1 no
Aluminium Weight per sqm = 6.50 Kg/m²
Vision Height 2.2 m
Add for cleats, sleeves, screws etc.
@5% = 0.33 kg
Add wastage @ 5% = 0.34 kg
Total = 7.17 kg
Details of cost for 6.50 kg
MATERIALS

7306	Aluminium T or L sections	kilogram	7.17	190.00	1362.30
7392	Powder coating 50 microns on aluminium sections	kilogram	7.17	61.00	437.37
TOTAL					1799.67 W
Add 1 % Water charges on "W"					18.00
TOTAL					1817.67 X
Add GST (multiplying factor 0.1405) on "X"					255.38
TOTAL					2073.05 Y
Add 15 % Contractor's profit and overheads on "Y"					310.96
Total					2384.01 Z
Add Cess @ 1% on "Z"					23.84
Cost for 6.5 kg					2407.85
Cost for 1 kg					370.44
Say					370.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
25.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:				
(a)	Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must pass the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:				
(b)	Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.				
(c)	Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.				
(d)	Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.				
(e)	Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

	The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.				
Note:-	1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.				
Note:-	2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories				
1	Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) &(+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr				
2	Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testingmethod for a range up to 2000 ml.				
3	Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testingmethod for a range upto 2000 ml				
4	Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-33010 testing method for a range upto 50 mm				
5	Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing methodfor Qualitative test Tests to be conducted on site.				
6	Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Details of cost for 6.72 sqm

Width of the unit 1.6 m

Height of the unit 4.2 m

Area of Single Unit 6.72 sqm

Total Area 6.72 sqm, No of Panels 1 no

Aluminium Weight per sqm = 6.50 Kg/sqm

Vision Height 2.2 m

Sparndrel Height 2.0 m

Details of cost for 6.72 sqm

MATERIALS

2605	Structural sealant - 6 mm x 12 mm	metre	17.02	30.00	510.60
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	20.11	20.00	402.20
2607	Weather Sealant - Non Staining (600 ml)	each	1.96	325.00	637.00
2608	Weather Sealant - Normal (300 ml)	each	2.55	98.00	249.90
2609	MS Brackets/Aluminium Alloy Brackets	kg	9.78	100.00	978.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	0.78	465.00	362.70
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	0.70	150.00	105.00
2612	Anchor Fastner - M10	each	2.00	10.00	20.00
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	2.00	35.00	70.00
2630	Baker rod	metre	5.04	5.00	25.20
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	52.00	3.00	156.00
2632	Fire Stop	metre	1.60	480.00	768.00
2615	Protective Tape	metre	6.72	20.00	134.40
2616	GI flashing - 1.2 mm Thick	kg	3.96	59.00	233.64
8654	Masking tape	metre	6.72	1.95	13.10
9999	Sundries	L.S.	225.50	2.00	451.00
9999	Sundries (For Fabrication)	L.S.	1804.03	2.00	3608.06
9999	Sundries (For Installation)	L.S.	1804.03	2.00	3608.06
9999	Sundries (Transporation)	L.S.	451.00	2.00	902.00
9999	Sundries (Scaffolding / Loading / Unloading)	L.S.	573.00	2.00	1146.00
9999	Sundries (Designing charges etc.)	L.S.	216.18	2.00	432.36

TOTAL

14813.22 W

Add 1 % Water charges on "W"

148.13

TOTAL

14961.36 X

Add GST (multiplying factor 0.1405) on "X"

2102.07

TOTAL

17063.43 Y

Add 15 % Contractor's profit and overheads on "Y"

2559.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				19622.94 Z
	Add Cess @ 1% on "Z"				196.23
	Cost for 6.72 sqm				19819.17
	Cost for 1 sqm				2949.28
	Say				2949.30
25.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement. Details of cost for 6.72 sqm Width of the unit 1.6 m Height of the unit 4.2 m Area of Single Unit 6.72 sqm Total Area 6.72 sqm, No of Panels 1 no Area of Glass deducting area of gap/grove 5% = 6.38 sqm Vision Height 2.2 m Wastage 10% = 0.638 sqm say 0.7 sqm Net = 7.02 sqm Details of cost for 6.72 sqm MATERIALS				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2617	6 mm thick High performance glass	sqm	7.02	1000.00	7020.00
2618	6 mm thick clear heat strengthened glass	sqm	7.02	650.00	4563.00
9999	Sundries (for insurance Charges)	L.S.	126.27	2.00	252.54
9999	Sundries (Fabrication charges including silicon sealant, baker rod, desecant etc.	L.S.	2120.13	2.00	4240.26
9999	Transporation including loading and unloading	L.S.	126.27	2.00	252.54
	TOTAL				16328.34 W
	Add 1 % Water charges on "W"				163.28
	TOTAL				16491.62 X
	Add GST (multiplying factor 0.1405) on "X"				2317.07
	TOTAL				18808.70 Y
	Add 15 % Contractor's profit and overheads on "Y"				2821.30
	Total				21630.00 Z
	Add Cess @ 1% on "Z"				216.30
	Cost for 6.72 sqm				21846.30
	Cost for 1 sqm				3250.94
	Say				3250.95
25.4	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.				
	Details of cost for 1.76 sqm				
	Width of the unit 1.6 m				
	Shuttter Weight				
	Height of the unit 1.1 m				
	Outer glass 6 mm				
	Area 1.76 sqm				
	Inner glass 6 mm				
	Aluminium Weight per sqm 7.78 Kg				
	Al weight = 1.76x7.78 = 13.7 Kg				
	No of Locking Point 4 no Total 67 Kg				
	Wedge Block 1 no				
	Details of cost for 1.76 sqm				
	MATERIALS				
2619	6 mm thick clear heat strengthened glass	each	3.00	128.00	384.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	0.80	150.00	120.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	49.00	3.00	147.00
2615	Protective Tape	metre	1.76	20.00	35.20
2620	ARMS GS HD -TOP HUNG -20"-TYPE P- COUPLE	pair	1.00	1350.00	1350.00
2621	Connection Block	each	2.00	35.00	70.00
2622	Curtain wall striker	each	4.00	85.00	340.00
2623	Adjustable Fastening Pawl	each	4.00	35.00	140.00
2624	Corner drive	each	2.00	255.00	510.00
2625	Top wedge Block	each	1.00	120.00	120.00
9999	Sundries	L.S.	118.00	2.00	236.00
9999	Sundries (For Fabrication)	L.S.	354.36	2.00	708.72
	TOTAL				4160.92 W
	Add 1 % Water charges on "W"				41.61
	TOTAL				4202.53 X
	Add GST (multiplying factor 0.1405) on "X"				590.46
	TOTAL				4792.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				718.95
	Total				5511.93 Z
	Add Cess @ 1% on "Z"				55.12
	Cost for 1.76 sqm				5567.05
	Cost for 1 sqm				3163.10
	Say				3163.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

25.5 Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, noncombustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 10 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wetlay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.

Details of cost for 3.23 sqm

Width of the unit = 0.86 m

Height of the unit = 3.75 m

Area = 3.23 sqm

Area including wastage @5 % = 3.39

Details of cost for 3.23 sqm

MATERIALS

2626	Glass wool Density 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	3.39	250.00	847.50
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	21.30	55.00	1171.50
2627	SS Screws - # 8 x 19	each	32.00	6.00	192.00
2628	Weather Sealant - DC 789	cartridge	2.00	120.00	240.00
2629	Cement Board	sqm	3.39	235.00	796.65
9999	Sundries with clips & adhesives	L.S.	308.50	2.00	617.00
9999	Sundries (For Fabrication)	L.S.	170.64	2.00	341.28
9999	Sundries (For Installation)	L.S.	170.64	2.00	341.28
TOTAL					4547.21 W
Add 1 % Water charges on "W"					45.47
TOTAL					4592.68 X
Add GST (multiplying factor 0.1405) on "X"					645.27
TOTAL					5237.95 Y
Add 15 % Contractor's profit and overheads on "Y"					785.69
Total					6023.65 Z
Add Cess @ 1% on "Z"					60.24
Cost for 3.23 sqm					6083.88
Cost for 1 sqm					1883.56
Say					1883.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

25.6 Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge.

For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*).“(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc. . The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

Details of cost for 3.23 sqm

Width of the unit = 0.86 m

Height of the unit = 3.75 m

Area = 3.23 sqm

Area i/c wastage @ 5 % = 3.39 sqm

Details of cost for 3.23 sqm

MATERIALS

2617	6 mm thick High performance glass	sqm	3.39	1000.00	3390.00
9999	Sundries (Insurance charges)	L.S.	43.46	2.00	86.92
9999	Sundries (Fabrication charges including silicon sealant, baker rod, desecant etc.)	L.S.	682.55	2.00	1365.10
9999	Sundries (transporation including loading & unloading)	L.S.	147.59	2.00	295.18
	TOTAL				5137.20 W
	Add 1 % Water charges on "W"				51.37
	TOTAL				5188.57 X
	Add GST (multiplying factor 0.1405) on "X"				728.99
	TOTAL				5917.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				887.63
	Total				6805.20 Z
	Add Cess @ 1% on "Z"				68.05
	Cost for 3.23 sqm				6873.25
	Cost for 1 sqm				2127.94
	Say				2127.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
25.8	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured. Details of cost for 35.28 Sqm Description WD HT Nos Area (Sqm) Facade Area 7.00 5.04 1.00 35.28 Fin Area 0.40 2.30 5.00 4.60 (A) Spider Fitting				
8945	4 Point spider fittings of SS-316 grade with fin but without flat head bolt(c/c routel distance 200mm)	each	5.00	3318.00	16590.00
8946	2 Point wall mounted spider fitting of SS-316 grade without flat head bolt and anchor fastener (c/c routel distance 200mm)	each	2.00	1659.00	3318.00
8947	1 Point wall mounted spider fitting of SS-316 grade without flat head bolt and anchor fastener (c/c routel distance 200mm)	each	12.00	1300.00	15600.00
8948	Flate head bolt	Nos	36.00	651.00	23436.00
8949	400 mm long fin plate without fastners	pair	5.00	5931.00	29655.00
	(B) Local Hardware				
2612	Anchor Fastner - M10 For one point spider fitting =12x2=24 nos For two point spider fitting =2x2=4 nos For 400mm fin plates =5x6=30 nosTotal=58 nos	each	58.00	10.00	580.00
8560	Non staining water resistant Clear silicon filling in gap	metre	49.28	65.00	3203.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Vr. joints between glasses = $7 \times 5.04 = 35.28$ mHr.joints between glass & wall = $2 \times 7.00 = 14.00$ mTotal=49.28 m				
8559	Stainless steel U Channel of size (50x25x2mm)	metre	7.00	160.00	1120.00
9999	Sundries(Baker Road, Screw &Accessories)	L.S.	1000	2.00	2000.00
9999	Labour	L.S.	10000	2.00	20000.00
9999	Scaffolding	L.S.	2600	2.00	5200.00
	(C) Glass Area				
8778	Toughened glass 12 mm thickness with hole = $7.00 \times 5.04 = 35.28$ sqm + 1.76 sqm (Add 5% Wastage)Total = 37.04 sqm	sqm	37.04	1747.00	64708.88
2415	21mm thick clear toughened Laminated glass for fins with holes	sqm	4.83	6000.00	28980.00
	TOTAL				214391.08 W
	Add 1 % Water charges on "W"				2143.91
	TOTAL				216534.99 X
	Add GST (multiplying factor 0.1405) on "X"				30423.17
	TOTAL				246958.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				37043.72
	Total				284001.88 Z
	Add Cess @ 1% on "Z"				2840.02
	Cost of 35.28 sqm				286841.90
	Cost of 1 sqm				8130.44
	Say				8130.45

SUB HEAD : 26.0

NEW TECHNOLOGIES AND MATERIALS

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.1	Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130 mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The bamboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.				
	Details of cost for 10m x 10m = 100 sqm				
	MATERIAL				
8021	Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm 100 + 10 (Add for wastage @10%) = 110 sqm	sqm	110.00	3470.00	381700.00
8022	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	39.90	112.00	4468.80
8023	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	2.00	255.00	510.00
8015	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m ³ 100 + 5 (Add for wastage @5%) = 105 sqm	sqm	105.00	18.00	1890.00
1246	Silicon based Joint Sealant for Tiles	kg	5.00	160.00	800.00
1247	Rubber base Adhesive	kg	5.00	223.00	1115.00
	LABOUR				0.00
0014	Carpenter 1st class	day	3.00	476.00	1428.00
0017	Beldar	day	3.00	320.83	962.49
9999	Sundries	L.S.	100.00	2.00	200.00
	TOTAL				393074.29 W
	Add 1 % Water charges on "W"				3930.74
	TOTAL				397005.03 X
	Add GST (multiplying factor 0.1405) on "X"				55779.21
	TOTAL				452784.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				67917.64
	Total				520701.88 Z
	Add Cess @ 1% on "Z"				5207.02
	Cost of 100 sqm				525908.89
	Cost of 1 sqm				5259.09
	Say				5259.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.2	Providing & fixing in position Phenol bonded Bamboo wood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 4mm thick, expanded poly ethylene foam sheets having 40kg/cum density over prepared surface. The bamboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge. Detail of cost for 10 sqm skirting MATERIAL				
8024	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm Area of 1 length skirting is 1.9 m x 0.085 m = 0.162 sqm Quantity required for 10 sqm = 10 / 0.1615 = 61.92 pieces Add 2.5% wastage= 1.548 Total = 61.92 + 1.548 = 63.468 Qty in running mtr = 63.468 x 1.9m = 120.59 running meter	sqm	120.59	300.00	36177.00
8015	High Density Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 10 + 0.5 (Add for wastage @5%) = 10.5 sqm	sqm	10.50	18.00	189.00
8210	Stainless steel screws 50 mm (62x3=186 nos)	100 Nos	1.86	270.00	502.20
1246	Silicon based Joint Sealant for Tiles	kg	1.00	160.00	160.00
1247	Rubber base Adhesive	kg	1.00	223.00	223.00
	LABOUR				
0014	Carpenter 1st class	day	1.00	476.00	476.00
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries	L.S.	20.00	2.00	40.00
	TOTAL				38088.03 W
	Add 1 % Water charges on "W"				380.88
	TOTAL				38468.91 X
	Add GST (multiplying factor 0.1405) on "X"				5404.88
	TOTAL				43873.79 Y
	Add 15 % Contractor's profit and overheads on "Y"				6581.07
	Total				50454.86 Z
	Add Cess @ 1% on "Z"				504.55
	Cost of 10 sqm				50959.41
	Cost of 1 sqm				5095.94
	Say				5095.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.3	Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, 1800mm length (minimum) and 130 mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necesasary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of second class teak wood of size 20x15 mm in centre of each tile and bottom and top of work height, 40x15mm placed at ends of each tile. The cladding shall be laid over backlayment of 1.00 mm thick expanded poly ethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge. Details of cost for 10m x 9.5m = 95 sqm MATERIAL				
8025	Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm 10 x 9.5 = 95 + 9.5 (Add for wastage @10%) = 104.5 sqm	sqm	104.50	3385.00	353732.50
8026	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm At end joints of planks = 4x9.91 = 39.64 mtr + 1.98 (Add for wastage 5%) = 41.62 mtr	metre	41.62	250.00	10405.00
8027	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm At perriferi of cladding = 2x(10+9.5)+1.95 (Add for wastage @5%) =40.95 metre	metre	40.95	255.00	10442.25
8016	High Density expanded poly ethylene (EPE) Foam 1mm thick (2x10x9.5) = 190 + 9.5 (Add for wastage @5%)=199.5 sqm	sqm	199.50	8.50	1695.75
8210	Stainless steel screws 50 mm @500mm c/c at teak wood frame	100 Nos	2.58	270.00	696.60
8212	Stainless steel screws 30 mm (5nos in each panels) No of panels=95/(1.9 x 0.135)=370 nos No. of screws= 370 x 5=1850 nos	100 Nos	18.500	190.00	3515.00
1190	Second class teak wood in planks 10 metre height, at every 1.9 meter height one length of 10 metre i.e (5x9.91x0.02x 0.015+2x10x0.02x.015+2x9.50x.02x.015+ 4x9.91x0.04x0.015)+wastage @5% =0.052866 cum LABOUR	10 cudm	5.2866	791.00	4181.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0014	Carpenter 1st class	day	5.00	476.00	2380.00
0015	Carpenter 2nd class	day	5.00	374.50	1872.50
0017	Beldar	day	5.00	320.83	1604.15
9999	Sundries	L.S.	100.00	2.00	200.00
	TOTAL				390725.45 W
	Add 1 % Water charges on "W"				3907.25
	TOTAL				394632.71 X
	Add GST (multiplying factor 0.1405) on "X"				55445.90
	TOTAL				450078.60 Y
	Add 15 % Contractor's profit and overheads on "Y"				67511.79
	Total				517590.39 Z
	Add Cess @ 1% on "Z"				5175.90
	Cost of 95 sqm				522766.29
	Cost of 1 sqm				5502.80
	Say				5502.80

26.4 Providing & fixing in position Phenol bonded Bamboo wood panelled or panelled and glazed shutters for doors windows, clerestorey windows with pre-molded 30mm thick planks, in approved colours, texture & finishe. It shall have 10mm wide, 25mm deep groove to fit in panels. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. All styles and rails shall have profiled interlocking system locked in place by bamboo pins, all complete as per direction of Engineer in charge. (The panelling will be paid for separately).

Details of cost for shutters of Bamboowood
200 x 108cm = 2.16 sqm

MATERIAL

8028	Bamboo wood shutter of doors	10 cudm	4.83	1700.00	8211.00

Styles 4x2.00x0.115x0.03 = 0.0276 cum +

Top rails 1x1.08x0.11x0.03m = 0.0036 cum +

Bottom rails 1x1.08x0.212x0.03

= 0.0069 cum +

Lock rails 1x1.08x0.18x0.03 = 0.0058 cum

Total = 0.0439 cum + 0.004 cum

(Wastage @5%)

Grand Total = 0.0483 cum OR 4.830 cudm

8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	0.40	265.00	106.00
8211	Stainless steel screws 40 mm	100 Nos	0.32	215.00	68.80

LABOUR

0041	Carpenter (average)	day	0.33	374.50	123.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0017	Beldar	day	0.33	320.83	105.87
9999	Sundries T&P etc.	L.S.	5.62	2.00	11.24
	TOTAL				8626.50 W
	Add 1 % Water charges on "W"				86.26
	TOTAL				8712.76 X
	Add GST (multiplying factor 0.1405) on "X"				1224.14
	TOTAL				9936.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				1490.54
	Total				11427.44 Z
	Add Cess @ 1% on "Z"				114.27
	Cost of 2.16 sqm				11541.72
	Cost of 1 sqm				5343.39
	Say				5343.40
26.5	Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bamboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per direction of the Engineer in-charge. (area of opening for panel inserts excluding portion inside grooves or rebates to be measured)				
	Details of cost for shutters of a door with 2/3rd panelling... 200 x 108 cm = 2.16 sqm Panel area = 4x45.1x36.55cm = 0.66 sqm MATERIAL 8029 Bamboo wood panelling (10mm thick) 10 cudm 0.80 1680.00 1344.00 4x47.2x38.65x1.0cm = 0.0073cum + 0.0007 sqm (Add Wastage @10%) Total = 0.008 cum OR 8 cudm LABOUR 0041 Carpenter (average) day 0.57 374.50 213.47 9999 Sundries L.S. 4.42 2.00 8.84 TOTAL 1566.31 W Add 1 % Water charges on "W" 15.66 TOTAL 1581.97 X Add GST (multiplying factor 0.1405) on "X" 222.27 TOTAL 1804.23 Y Add 15 % Contractor's profit and overheads on "Y" 270.64				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2074.87 Z
	Add Cess @ 1% on "Z"				20.75
	Cost of 0.66 sqm				2095.62
	Cost of 1 sqm				3175.18
	Say				3175.20
26.6	Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood (superior class, interior use), in approved colour, texture and finish. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. The door frame shall have tenon & mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all a complete as per direction of Engineer-in charge.				
	Detail of cost for 33 cudm				
	MATERIAL				
8030	Superior class Bamboo wood door frame	10 cudm	3.40	1675.00	5695.00
	65 mm thick				
	2x206.75x9.5x6.5 cm = 0.0255 cum +				
	1x117.50x9.5x6.5 cm = 0.0072 cum				
	Total = 0.033 cum = 33 cudm				
	+ 0.001 cum (Add for wastage @ 5%)				
	Grand total = 0.034 cum = 34 Cudm				
	LABOUR				
0014	Carpenter 1st class	day	0.72	476.00	342.72
0017	Beldar	day	0.07	320.83	22.46
	TOTAL				6060.18 W
	Add 1 % Water charges on "W"				60.60
	TOTAL				6120.78 X
	Add GST (multiplying factor 0.1405) on "X"				859.97
	TOTAL				6980.75 Y
	Add 15 % Contractor's profit and overheads on "Y"				1047.11
	Total				8027.86 Z
	Add Cess @ 1% on "Z"				80.28
	Cost of 33 cudm				8108.14
	Cost of 1 cudm				245.70
	Say				245.70
26.6A	Providing, erecting, laying and fixing in position in 3.5 to 4 mm thick bamboo mat corrugated sheet (BMCS) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.				
	Details of cost for 181.30sqm area. Consider a sheet of 18mx9m (external dimension of plinth).				
	Area of roof = 18.5x9.8m = 181.30 sqm				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Sheets used = 2x 19 nos (2.44m x 1.05m) & 4x19 nos (1.83mx 1.05m). Total area = (2x19x2.44x1.05)+(4x19 x1.83x1.05) = 243.39sqm, Add wastage @ 3% = 7.30 sqm, Total area = 250.69 sqm.				
8144	Bamboo Mat corrugated sheets 3.5 to 4mm thick conforming to IS 15476:2004	sqm	250.69	2648.00	663827.12
	Weight of sheets, For 2.44mx1.05m sheet size, 12kg/Nos x 38 nos = 456 kgs, For 1.83m x 1.05m sheet size, 9kgs/ Nos x 76 Nos = 684 kgs. Total weight of sheet = 456+684 = 1140 kgs = 1.14 tonne				
2358	Carriage of Bamboo Mat corrugated sheets and accessories	tonne	1.14	11500.00	13110.00
1023	Galvanized steel J or L hooks 8mm dia	10 Nos	68.40	120.00	8208.00
1208	Bitumen washer	100 Nos	6.84	30.00	205.20
1209	G.I. plain washer thick	100 Nos	6.84	35.00	239.40
9977	Carriage of bolts and washers	L.S.	11.58	2.00	23.16
9999	Sundries	L.S.	56.78	2.00	113.56
	LABOUR:				
0030	Mistry	day	3.00	476.00	1428.00
0015	Carpenter 2nd class	day	3.00	374.50	1123.50
0017	Beldar	day	9.00	320.83	2887.47
	TOTAL				691165.41 W
	Add 1 % Water charges on "W"				6911.65
	TOTAL				698077.06 X
	Add GST (multiplying factor 0.1405) on "X"				98079.83
	TOTAL				796156.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				119423.53
	Total				915580.43 Z
	Add Cess @ 1% on "Z"				9155.80
	Cost of 181.30 sqm				924736.23
	Cost of 1 sqm				5100.59
	Say				5100.60
26.6B	Providing and fixing in position ridges of 3.5 to 4 mm thick bamboo mat ridge cap (BMRC) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.				
	Details of cost for length of ridge 18.50 metre (pair of 43cm width each)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Consider a shed of 18mx9m (external dimensions of plinth). Length of ridge 18.50 metre. MATERIAL: Ridges (Male & female) of size: 1.05m length required = 20 sets x 1.05m = 21.00 metre, Add wastage @ 5% = 1.05 metre, Total length = 22.05 metre.				
8145	Bamboo Mat Ridge cap 3.5 to 4mm thick conforming to IS 15476:2004	metre	22.05	2570.00	56668.50
9977	Carriage (The ridges to be fixed with the same hooks as the sheets)	L.S.	19.43	2.00	38.86
9999	Sundries	L.S.	9.71	2.00	19.42
	LABOUR:				0.00
0030	Mistry	day	0.20	476.00	95.20
0015	Carpenter 2nd class	day	0.20	374.50	74.90
0017	Beldar	day	0.60	320.83	192.50
	TOTAL				57089.38 W
	Add 1 % Water charges on "W"				570.89
	TOTAL				57660.27 X
	Add GST (multiplying factor 0.1405) on "X"				8101.27
	TOTAL				65761.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				9864.23
	Total				75625.77 Z
	Add Cess @ 1% on "Z"				756.26
	Cost of 18.50 metre				76382.03
	Cost of 1 sqm				4128.76
	Say				4128.75
26.6C	Providing and fixing at all height false ceiling of 4mm thick phenol bonded Bamboo Mat board (595x595mm) conforming to IS:13958-1994 including providing and fixing of frame work made of GI angle 25x25x0.4 mm thick all around suitably fixed to wall with the help of dash fastener and hanger frame (600x600 c/c) made GI slotted Tee having powder coating on bottom side (30x25x0.3 mm thick for main member & 25x25x0.3 mm for cross member) connected to ceiling with 2.64mm GI wire and anchor fastener at every junction and also including cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed all complete as per direction of Engineer-in-charge.				
	Details of cost for 100 sqm.				
	Ceiling area = 100sqm, Add wastage @ 5% = 5sqm, Total area = 105 sqm				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8147	4mm thick Bamboo Mat Board conforming to IS 13958:1994 Weight: (0.595x0.595m of Bamboo board). Total number of board = 297. Total weight of Bamboo board = 297 Nos x 1.31kgs/Nos = 389.07 kgs = 0.39 tonne.	sqm	105.00	1738.00	182490.00
2358	Carriage of 4mm thick Bamboo mat board and accessories.	tonne	0.39	11500.00	4485.00
8570	GI Main T ceiling section 30x25x 0.3 mm (3 metre long) including of wastage of 10%	each	29.50	187.00	5516.50
8571	GI Perimeter wall angle 25x25x0.4 mm (3 metre long) including of wastage of 10%	each	13.50	157.00	2119.50
8572	GI Intermediate cross T section 25x25x0.3 mm (1.2 metre long) including of wastage of 10% on grid cutouts.	each	147.00	72.00	10584.00
8573	GI Intermediate cross T section 25x25x0.3 mm (0.6 metre long) including of wastage of 10% on grid cutouts.	each	147.00	34.00	4998.00
8615	Hanger rod 4mm thick	each	72.00	8.00	576.00
8616	Adjustment clip 85x30x0.8mm	each	72.00	5.00	360.00
7015	Soffit cleat (size 27x37x25x1.60mm)	each	72.00	3.00	216.00
7388	Dash hold fasteners 12.5mm dia, 50mm long with 6mm dia bolts	each	72.00	11.00	792.00
9977	Carriage of grid materials	L.S.	89.28	2.00	178.56
9999	Sundries	L.S.	187.95	2.00	375.90
	LABOUR:				0.00
0015	Carpenter 2nd class	day	28.00	374.50	10486.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				230556.55 W
	Add 1 % Water charges on "W"				2305.57
	TOTAL				232862.12 X
	Add GST (multiplying factor 0.1405) on "X"				32717.13
	TOTAL				265579.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				39836.89
	Total				305416.13 Z
	Add Cess @ 1% on "Z"				3054.16
	Cost of 100 sqm				308470.29
	Cost of 1 sqm				3084.70
	Say				3084.70
26.6D	Providing and fixing at Bamboo Mat board conforming to IS:13958-1994 for partition to frame by bucking or studding with screws etc. complete (Frames, backing or studding to be paid separately)				
26.6D.1	3mm thickness				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 3.5mx2m = 7.0 sqm Partition area = 7.0sqm, Add wastage @ 5% = 0.35sqm, Total area = 7.35 sq				
	MATERIAL:				
8146	3mm thick Bamboo Mat Board	sqm	7.35	1508.00	11083.80
	conforming to IS 13958:1994 Weight: 7.35sqm x 2.70 kgs/sqm = 19.845 kgs = 0.02 tonne.				
2358	Carriage of 3mm thick Bamboo mat	tonne	0.02	11500.00	230.00
	board and accessories.				
9999	Sundries and screws	L.S.	26.91	2.00	53.82
0015	Carpenter 2nd class	day	0.9	374.50	337.05
0017	Carpenter 2nd class Beldar	day	1	320.83	320.83
					12025.50 W
	Add 1 % Water charges on "W"				120.26
	TOTAL				12145.76 X
	Add GST (multiplying factor 0.1405) on "X"				1706.48
	TOTAL				13852.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				2077.84
	Total				15930.07 Z
	Add Cess @ 1% on "Z"				159.30
					16089.37
	Cost of 7 sqm				2298.48
	Cost of 1 sqm				2298.50
	Say				

26.6D.2 4mm thickness

Details of cost for 3.5mx2m = 7.0 sqm
Partition area = 7.0sqm, Add wastage
@ 5% = 0.35sqm, Total area = 7.35 sqm

MATERIAL:

8147	4mm thick Bamboo Mat Board	sqm	7.35	1738.00	12774.30
	conforming to IS 13958:1994 Weight: 7.35sqm x 3.70 kgs/sqm = 27.195 kgs = 0.03 tonne.				
2358	Carriage of 4mm thick Bamboo mat	tonne	0.03	11500.00	345.00
	board and accessories.				
9999	Sundries and screws	L.S.	26.91	2.00	53.82
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Carpenter 2nd class Beldar	day	1.00	320.83	320.83
					13831 W
	Add 1 % Water charges on "W"				138.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				13969.31 X
	Add GST (multiplying factor 0.1405) on "X"				1962.69
	TOTAL				15932.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				2389.80
	Total				18321.80 Z
	Add Cess @ 1% on "Z"				183.22
	Cost of 7 sqm				18505.02
	Cost of 1 sqm				2643.57
	Say				2643.55
26.6D.3	6mm thickness				
	Details of cost for 3.5mx2m = 7.0 sqm				
	Partition area = 7.0sqm, Add wastage				
	@ 5% = 0.35sqm, Total area = 7.35 sqm				
	MATERIAL:				
8148	6mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	7.35	2098.00	15420.30
	Weight: 7.35sqm x 5.40 kgs/sqm = 39.69 kgs = 0.04 tonne.				
2358	Carriage of 6mm thick Bamboo mat board and accessories.	tonne	0.04	11500.00	460.00
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR:				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				16592.00 W
	Add 1 % Water charges on "W"				165.92
	TOTAL				16757.92 X
	Add GST (multiplying factor 0.1405) on "X"				2354.49
	TOTAL				19112.41 Y
	Add 15 % Contractor's profit and overheads on "Y"				2866.86
	Total				21979.27 Z
	Add Cess @ 1% on "Z"				219.79
	Cost of 7 sqm				22199.06
	Cost of 1 sqm				3171.29
	Say				3171.30
26.6D.4	9mm thickness				
	Details of cost for 3.5mx2m = 7.0 sqm				
	Partition area = 7.0sqm, Add wastage				
	@ 5% = 0.35sqm, Total area = 7.35 sqm				
	MATERIAL:				
8149	9mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	7.35	2688.00	19756.80
	Weight: 7.35sqm x 8.40 kgs/sqm = 61.74 kgs = 0.06 tonne.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2358	Carriage of 9mm thick Bamboo mat board and accessories.	tonne	0.06	11500.00	690.00
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR:				0.00
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				21158.50 W
	Add 1 % Water charges on "W"				211.59
	TOTAL				21370.09 X
	Add GST (multiplying factor 0.1405) on "X"				3002.50
	TOTAL				24372.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				3655.89
	Total				28028.47 Z
	Add Cess @ 1% on "Z"				280.28
	Cost of 7 sqm				28308.75
	Cost of 1 sqm				4044.11
	Say				4044.10
26.6D.5	12mm thickness				
	Details of cost for 3.5mx2m = 7.0 sqm				
	Partition area = 7.0sqm, Add wastage @ 5% = 0.35sqm, Total area = 7.35 sqm				
	MATERIAL:				
8150	12mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	7.35	3115.00	22895.25
	Weight: 7.35sqm x 10.00 kgs/sqm = 73.50 kgs = 0.07 tonne				
2358	Carriage of 12mm thick Bamboo mat board and accessories.	tonne	0.07	11500.00	805.00
9999	Sundries and screws	L.S.	26.91	2.00	53.82
	LABOUR:				
0015	Carpenter 2nd class	day	0.90	374.50	337.05
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				24411.95 W
	Add 1 % Water charges on "W"				244.12
	TOTAL				24656.07 X
	Add GST (multiplying factor 0.1405) on "X"				3464.18
	TOTAL				28120.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				4218.04
	Total				32338.28 Z
	Add Cess @ 1% on "Z"				323.38
	Cost of 7 sqm				32661.67
	Cost of 1 sqm				4665.95
	Say				4665.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.6E	Providing and fixing at all height wall panelling with phenol bonded Bamboo Mat board conforming to IS:13958-1994 including providing and fixing to frame work made of 50mm x 50mm hardwood plugs including cutting brick work and fixing in cement mortar and making good the wall etc. and also providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws all complete as per direction of Engineer-in- Charge.				
26.6E.1	9mm thickness				
	Details of cost for panelling area of				
	5mx4m = 20.00 sqm with moulding				
	length of 18.00 metre				
	Wall panelling area = 20.00sqm,				
	Add wastage @ 5% = 1.0sqm,				
	Total area = 21.00 sqm				
	MATERIAL:				
8149	9mm thick Bamboo Mat Boardconforming to IS 13958:1994	sqm	21.00	2688.00	56448.00
	Weight: 21sqm x 8.40 kgs/sqm =				
	176.4 kgs = 0.18 tonne.				
2358	Carriage of 9mm thick Bamboo mat board and accessories.	tonne	0.18	11500.00	2070.00
1316	50mmx50mm hardwood plug	each	45.00	75.00	3375.00
1190	Second class teak wood in planks	10 cudm	2.477	791.00	1959.31
2204	Carriage of timber	cum	0.02477	121.29	3.00
0637	Bright finished or black enamelled mild steel screws 40mm	100 Nos	0.70	60.00	42.00
9999	Sundries	L.S.	26.91	2.00	53.82
	LABOUR:				
	0.00				
0015	Carpenter 2nd class	day	2.00	374.50	749.00
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				65341.79 W
	Add 1 % Water charges on "W"				653.42
	TOTAL				65995.21 X
	Add GST (multiplying factor 0.1405) on "X"				9272.33
	TOTAL				75267.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				11290.13
	Total				86557.67 Z
	Add Cess @ 1% on "Z"				865.58
	Cost of 20 sqm				87423.24
	Cost of 1 sqm				4371.16
	Say				4371.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.6E.2	12mm thickness				
	Details of cost for panelling area of 5mx4m = 20.00 sqm with moulding length of 18.00 metre Wall panelling area = 20.00sqm, Add wastage @ 5% = 1.00sqm Total area = 21.00 sqm MATERIAL:				
8150	12mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	21.00	3115.00	65415.00
	Weight: 21sqm x 10 kgs/sqm = 210 kgs = 0.21 tonne.				
2358	Carriage of 12mm thick Bamboo matboard and accessories.	tonne	0.21	11500.00	2415.00
1316	50mmx50mm hardwood plug	each	45.00	75.00	3375.00
1190	Second class teak wood in planks	10 cudm	2.477	791.00	1959.31
2204	Carriage of timber	cum	0.02477	121.29	3.00
0637	Bright finished or black enamelled mildsteel screws 40mm	100 Nos	0.70	60.00	42.00
9999	Sundries	L.S.	26.91	2.00	53.82
	LABOUR:				0.00
0015	Carpenter 2nd class	day	2.00	374.50	749.00
0017	Beldar	day	2.00	320.83	641.66
	TOTAL				74653.79 W
	Add 1 % Water charges on "W"				746.54
	TOTAL				75400.33 X
	Add GST (multiplying factor 0.1405) on "X"				10593.75
	TOTAL				85994.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				12899.11
	Total				98893.19 Z
	Add Cess @ 1% on "Z"				988.93
	Cost of 20 sqm				99882.12
	Cost of 1 sqm				4994.11
	Say				4994.10
26.7	Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 57808b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/m³ as per ASTM D 1622, water absorptions 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.				

Details of cost for 10 Sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
8561	Extruded polystyrene rigid insulation board 50 mm thick including 2% wastage	sqm	10.20	525.00	5355.00
	LABOUR				
0014	Carpenter 1st class	day	0.25	476.00	119.00
0028	Mate	day	0.25	320.83	80.21
0017	Beldar	day	0.25	320.83	80.21
9999	Sundries (Water based adhesive, fasteners, scaffolding etc.)	L.S.	100.00	2.00	200.00
	TOTAL				5834.42 W
	Add 1 % Water charges on "W"				58.34
	TOTAL				5892.76 X
	Add GST (multiplying factor 0.1405) on "X"				827.93
	TOTAL				6720.69 Y
	Add 15 % Contractor's profit and overheads on "Y"				1008.10
	Total				7728.80 Z
	Add Cess @ 1% on "Z"				77.29
	Cost of 10 sqm				7806.08
	Cost of 1 sqm				780.61
	Say				780.60

26.8 Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size under deck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/cum as per ASTM D 1622, water absorptions 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.

Details of cost for 10 Sqm

	MATERIAL				
8561	Extruded polystyrene rigid insulation board 50 mm thick including 2% wastage	sqm	10.20	525.00	5355.00
	LABOUR				
0014	Carpenter 1st class	day	0.50	476.00	238.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0028	Mate	day	0.50	320.83	160.42
0017	Beldar	day	0.50	320.83	160.42
9999	Sundries (Water based adhesive, fasteners, scaffolding etc.)	L.S.	100.00	2.00	200.00
	TOTAL				6113.83 W
	Add 1 % Water charges on "W"				61.14
	TOTAL				6174.97 X
	Add GST (multiplying factor 0.1405) on "X"				867.58
	TOTAL				7042.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				1056.38
	Total				8098.93 Z
	Add Cess @ 1% on "Z"				80.99
	Cost of 10 sqm				8179.92
	Cost of 1 sqm				817.99
	Say				818.00
26.9	Providing and fixing factory made solid Foam uPVC profile for kitchen cabinet frame (45 x 20 mm) of approved shade, quality and make. The profile shall be laminated on both sides, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and the exposed edges sealed with PVC edge beading of same shade and colour. The frame shall be fire retardent with necessary screw holding capacity. Frame shall be fixed to wall using Expendable Fastner with necessary stainless steel screws, all complete as per direction of Engineer-incharge.				
	Details of cost for kitchen cabinate				
	(2.00 x 0.45)+(2.00+0.61)= 2.13 mtr				
	MATERIAL				
2491	Pre laminated both side solid foam uPVC profile (45x20mm)(Accuplist/Accucel/ Sintex or equivalent)	metre	2.13	130.00	276.90
2493	PVC edge beading	metre	4.26	31.00	132.06
2494	Expandable fastner with plastic sleeve	each	8.00	5.00	40.00
8210	Stainless steel screws 50 mm	100 Nos	0.08	270.00	21.60
	LABOUR				
0014	Carpenter 1st class	day	0.10	476.00	47.60
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				550.24 W
	Add 1 % Water charges on "W"				5.50
	TOTAL				555.75 X
	Add GST (multiplying factor 0.1405) on "X"				78.08
	TOTAL				633.83 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				95.07
	Total				728.90 Z
	Add Cess @ 1% on "Z"				7.29
	Cost for 2.13 metre				736.19
	Cost for 1 metre				345.63
	Say				345.65
26.10	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardent having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.				
	Details of cost for of one shutter 0.46 x 0.61m =0.278 sqm MATERIAL				
2492	Solid foam uPVC sheet 20mm thick pre laminated on both side(Accuplist/Accucel/ Sintex)	sqm	0.281	2090.00	587.29
2493	PVC edge beading	metre	2.13	31.00	66.03
9999	Sundries	L.S.	20.0	2.00	40.00
	LABOUR				
0014	Carpenter 1st class	day	0.20	476.00	95.20
0017	Beldar	day	0.20	320.83	64.17
	TOTAL				852.69 W
	Add 1 % Water charges on "W"				8.53
	TOTAL				861.21 X
	Add GST (multiplying factor 0.1405) on "X"				121.00
	TOTAL				982.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				147.33
	Total				1129.55 Z
	Add Cess @ 1% on "Z"				11.30
	Cost for 0.281 sqm				1140.84
	Cost for 1 sqm				4059.93
	Say				4059.95
26.11	Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete :				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos				
	MATERIAL				
8226	Concealed zinc coated hinges 19-20 mm	10 Nos	1.00	420.00	420.00
	thick with mounting plate hettich				
	make(code 1078660)				
8210	Stainless steel screws 50 mm	100 Nos	0.80	270.00	216.00
9977	Carriage of material	L.S.	2.73	2.00	5.46
	LABOUR				
0015	Carpenter 2nd class	day	0.14	374.50	52.43
0017	Beldar	day	0.09	320.83	28.87
	TOTAL				722.76 W
	Add 1 % Water charges on "W"				7.23
	TOTAL				729.99 X
	Add GST (multiplying factor 0.1405) on "X"				102.56
	TOTAL				832.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				124.88
	Total				957.44 Z
	Add Cess @ 1% on "Z"				9.57
	Cost of 10 nos				967.01
	Cost of 1 no				96.70
	Say				96.70
26.12	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.				
	Details of Cost for 300 Sqm				
	MATERIAL				
8956	Bi-Axial Extruded GeoGrids of Minimum	Sqm	300.00	100.00	30000.00
	Tensile Strength 15 kN/m in the longitudinal and transverse direction				
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation.				3000.00
	10%				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOTAL				36002.97 W
	Add 1 % Water charges on "W"				360.03
	TOTAL				36363.00 X
	Add GST (multiplying factor 0.1405) on "X"				5109.00
	TOTAL				41472.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				6220.80
	Total				47692.80 Z
	Add Cess @ 1% on "Z"				476.93
	Cost for 300 Sqm				48169.73
	Cost per Sqm				160.57
	Say				160.55

26.13 Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 20kN/m in the longitudinal and transverse direction, with 7kN/m and 14kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.

Details of Cost for 300 Sqm

	MATERIAL				
8957	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction	Sqm	300.00	115.00	34500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation.				3450.00
	10% of				
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOTAL				40952.97 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				409.53
	TOTAL				41362.50 X
	Add GST (multiplying factor 0.1405) on "X"				5811.43
	TOTAL				47173.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				7076.09
	Total				54250.02 Z
	Add Cess @ 1% on "Z"				542.50
	Cost for 300 Sqm				54792.52
	Cost per Sqm				182.64
	Say				182.65
26.14	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.				
	Details of Cost for 300 Sqm				
	MATERIAL				
8958	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction	Sqm	300.00	185.00	55500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				5550.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOTAL				64052.97 W
	Add 1 % Water charges on "W"				640.53
	TOTAL				64693.50 X
	Add GST (multiplying factor 0.1405) on "X"				9089.44
	TOTAL				73782.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				11067.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				84850.38 Z
	Add Cess @ 1% on "Z"				848.50
	Cost for 300 Sqm				85698.88
	Cost per Sqm				285.66
	Say				285.65
26.15	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 40kN/m in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.				
	Details of Cost for 300 Sqm				
	MATERIAL				
8959	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction	Sqm	300.00	275.00	82500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation.				8250.00
	10% LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOTAL				93752.97 W
	Add 1 % Water charges on "W"				937.53
	TOTAL				94690.50 X
	Add GST (multiplying factor 0.1405) on "X"				13304.02
	TOTAL				107994.51 Y
	Add 15 % Contractor's profit and overheads on "Y"				16199.18
	Total				124193.69 Z
	Add Cess @ 1% on "Z"				1241.94
	Cost for 300 Sqm				125435.63
	Cost per Sqm				418.12
	Say				418.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.16	Supplying & laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. Geocomposite for planar drainage, realized by thermobonding a draining core in extruded monofilaments with two filtering nonwoven geotextiles that may also be working as separation or protecting layers. The draining three dimensional core will have a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 18 kN/m , with mass per unit area of 740 gsm, supplied in the form of roll for easy transportation to site of work as per detailed specification all complete as per directions of Engineer in charge.				
	Material				
	Details of Cost for 300 Sqm				
8960	Geosynthetic Drainage Composite	Sqm	300	530.00	159000.00
	Add 10 per cent of the cost of synthetic Composites for wastage and accessories for joining sheets with the facia pannels, overlaps and other protective elements for synthetic Composites and other miscelleneus activities required to complete the item in all respect including transpotarion & takes. 10%				15900.00
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6	320.83	1924.98
0037	Skilled Beldar	day	3	320.83	962.49
	TOTAL				177902.97 W
	Add 1 % Water charges on "W"				1779.03
	TOTAL				179682.00 X
	Add GST (multiplying factor 0.1405) on "X"				25245.32
	TOTAL				204927.32 Y
	Add 15 % Contractor's profit and overheads on "Y"				30739.10
	Total				235666.42 Z
	Add Cess @ 1% on "Z"				2356.66
	Cost for 300 Sqm				238023.08
	Cost per Sqm				793.41
	Say				793.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.17	Supplying & laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 g/m² and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/ m , with mass per unit area of 830 gsm, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer - In - Charge.				
	Material				
	Details of Cost for 300 Sqm				
8961	Geosynthetic Drainage Composite	Sqm	300.00	630.00	189000.00
	Add 10 per cent of the cost of synthetic Composites for wastage and accessories for joining sheets with the fascia pannels, overlaps and other protective elements for synthetic Composites and other miscellaneous activities required to complete the item in all respect including transportation & takes 10% LABOUR				18900.00
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOTAL				210902.97 W
	Add 1 % Water charges on "W"				2109.03
	TOTAL				213012.00 X
	Add GST (multiplying factor 0.1405) on "X"				29928.19
	TOTAL				242940.18 Y
	Add 15 % Contractor's profit and overheads on "Y"				36441.03
	Total				279381.21 Z
	Add Cess @ 1% on "Z"				2793.81
	Cost for 300 Sqm				282175.02
	Cost per Sqm				940.58
	Say				940.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.18	Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement / basal reinforcement as per MORTH 3100 and IRC 113, made of high tenacity polyester core with polyethylene coating with Minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 degree Celcius corresponding to 12 % strain .				
26.18.1	Ultimate tensile strength- 100 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8962	Synthetic Geogrid	Sqm	300.00	220.00	66000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				6600.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				75602.97 W
	Add 1 % Water charges on "W"				756.03
	TOTAL				76359.00 X
	Add GST (multiplying factor 0.1405) on "X"				10728.44
	TOTAL				87087.44 Y
	Add 15 % Contractor's profit and overheads on "Y"				13063.12
	Total				100150.55 Z
	Add Cess @ 1% on "Z"				1001.51
	Cost for 300 Sqm				101152.06
	Cost per Sqm				337.17
	Say				337.15
26.18.2	Ultimate tensile strength- 150 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8963	Synthetic Geogrid	Sqm	300.00	230.00	69000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				6900.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				78902.97 W
	Add 1 % Water charges on "W"				789.03
	TOTAL				79692.00 X
	Add GST (multiplying factor 0.1405) on "X"				11196.73
	TOTAL				90888.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				13633.31
	Total				104522.03 Z
	Add Cess @ 1% on "Z"				1045.22
	Cost for 300 Sqm				105567.25
	Cost per Sqm				351.89
	say				351.90
26.18.3	Ultimate tensile strength- 200 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8964	Synthetic Geogrid	Sqm	300.00	320.00	96000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				9600.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOATL				108602.97 W
	Add 1 % Water charges on "W"				1086.03
	TOTAL				109689.00 X
	Add GST (multiplying factor 0.1405) on "X"				15411.30
	TOTAL				125100.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				18765.05
	Total				143865.35 Z
	Add Cess @ 1% on "Z"				1438.65
	Cost for 300 Sqm				145304.00
	Cost per Sqm				484.35
	say				484.35

26.18.4 Ultimate tensile strength- 250 kN/m

MATERIAL

Details of Cost for 300 Sqm

8965	Synthetic Geogrid	Sqm	300.00	355.00	106500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				10650.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				120152.97 W
	Add 1 % Water charges on "W"				1201.53
	TOTAL				121354.50 X
	Add GST (multiplying factor 0.1405) on "X"				17050.31
	TOTAL				138404.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				20760.72
	Total				159165.53 Z
	Add Cess @ 1% on "Z"				1591.66
	Cost for 300 Sqm				160757.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost per Sqm				535.86
	say				535.85
26.18.5	Ultimate tensile strength- 300 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8966	Synthetic Geogrid	Sqm	300.00	365.00	109500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				10950.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				123452.97 W
	Add 1 % Water charges on "W"				1234.53
	TOTAL				124687.50 X
	Add GST (multiplying factor 0.1405) on "X"				17518.59
	TOTAL				142206.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				21330.91
	Total				163537.01 Z
	Add Cess @ 1% on "Z"				1635.37
	Cost for 300 Sqm				165172.38
	Cost per Sqm				550.57
	say				550.55
26.18.6	Ultimate tensile strength- 350 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8967	Synthetic Geogrid	Sqm	300.00	370.00	111000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				11100.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				125102.97 W
	Add 1 % Water charges on "W"				1251.03
	TOTAL				126354.00 X
	Add GST (multiplying factor 0.1405) on "X"				17752.74
	TOTAL				144106.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				21616.01
	Total				165722.75 Z
	Add Cess @ 1% on "Z"				1657.23
	Cost for 300 Sqm				167379.97
	Cost per Sqm				557.93
	say				557.95

26.18.7 Ultimate tensile strength- 400 kN/m

	MATERIAL				
	Details of Cost for 300 Sqm				
8968	Synthetic Geogrid	Sqm	300.00	475.00	142500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				14250.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				159752.97 W
	Add 1 % Water charges on "W"				1597.53
	TOTAL				161350.50 X
	Add GST (multiplying factor 0.1405) on "X"				22669.75
	TOTAL				184020.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				27603.04
	Total				211623.28 Z
	Add Cess @ 1% on "Z"				2116.23
	Cost for 300 Sqm				213739.51
	Cost per Sqm				712.47
	say				712.45

26.18.8 Ultimate tensile strength- 500 kN/m

MATERIAL

Details of Cost for 300 Sqm

8969	Synthetic Geogrid	Sqm	300.00	535.00	160500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				16050.00

LABOUR

0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				179552.97 W
	Add 1 % Water charges on "W"				1795.53
	TOTAL				181348.50 X
	Add GST (multiplying factor 0.1405) on "X"				25479.46
	TOTAL				206827.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				31024.19
	Total				237852.16 Z
	Add Cess @ 1% on "Z"				2378.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 300 Sqm				240230.68
	Cost per Sqm				800.77
	say				800.75
26.18.9	Ultimate tensile strength- 600 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8970	Synthetic Geogrid	Sqm	300.00	550.00	165000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				16500.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				184502.97 W
	Add 1 % Water charges on "W"				1845.03
	TOTAL				186348.00 X
	Add GST (multiplying factor 0.1405) on "X"				26181.89
	TOTAL				212529.89 Y
	Add 15 % Contractor's profit and overheads on "Y"				31879.48
	Total				244409.38 Z
	Add Cess @ 1% on "Z"				2444.09
	Cost for 300 Sqm				246853.47
	Cost per Sqm				822.84
	say				822.85
26.18.10	Ultimate tensile strength- 700 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8971	Synthetic Geogrid	Sqm	300.00	685.00	205500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				20550.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				229052.97 W
	Add 1 % Water charges on "W"				2290.53
	TOTAL				231343.50 X
	Add GST (multiplying factor 0.1405) on "X"				32503.76
	TOTAL				263847.26 Y
	Add 15 % Contractor's profit and overheads on "Y"				39577.09
	Total				303424.35 Z
	Add Cess @ 1% on "Z"				3034.24
	Cost for 300 Sqm				306458.59
	Cost per Sqm				1021.53
	say				1021.55
26.18.11	Ultimate tensile strength- 800 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8972	Synthetic Geogrid	Sqm	300.00	750.00	225000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				22500.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				250502.97 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				2505.03
	TOTAL				253008.00 X
	Add GST (multiplying factor 0.1405) on "X"				35547.62
	TOTAL				288555.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				43283.34
	Total				331838.97 Z
	Add Cess @ 1% on "Z"				3318.39
	Cost for 300 Sqm				335157.36
	Cost per Sqm				1117.19
	say				1117.20
26.18.12	Ultimate tensile strength- 900 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8973	Synthetic Geogrid	Sqm	300.00	900.00	270000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				27000.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				300002.97 W
	Add 1 % Water charges on "W"				3000.03
	TOTAL				303003.00 X
	Add GST (multiplying factor 0.1405) on "X"				42571.92
	TOTAL				345574.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				51836.24
	Total				397411.16 Z
	Add Cess @ 1% on "Z"				3974.11
	Cost for 300 Sqm				401385.27
	Cost per Sqm				1337.95
	say				1337.95
26.18.13	Ultimate tensile strength- 1000 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8974	Synthetic Geogrid	Sqm	300.00	1025.00	307500.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				30750.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				341252.97 W
	Add 1 % Water charges on "W"				3412.53
	TOTAL				344665.50 X
	Add GST (multiplying factor 0.1405) on "X"				48425.50
	TOTAL				393091.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				58963.65
	Total				452054.65 Z
	Add Cess @ 1% on "Z"				4520.55
	Cost for 300 Sqm				456575.20
	Cost per Sqm				1521.92
	say				1521.90

26.18.14 Ultimate tensile strength- 1100 kN/m

MATERIAL

Details of Cost for 300 Sqm

8975	Synthetic Geogrid	Sqm	300.00	1000.00	300000.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wsatage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the facia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				30000.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				333002.97 W
	Add 1 % Water charges on "W"				3330.03
	TOTAL				336333.00 X
	Add GST (multiplying factor 0.1405) on "X"				47254.79
	TOTAL				383587.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				57538.17
	Total				441125.95 Z
	Add Cess @ 1% on "Z"				4411.26
	Cost for 300 Sqm				445537.21
	Cost per Sqm				1485.12
	say				1485.10
26.18.15	Ultimate tensile strength- 1200 kN/m				
	MATERIAL				
	Details of Cost for 300 Sqm				
8976	Synthetic Geogrid	Sqm	300.00	1088.00	326400.00
	Add 10 per cent of the cost of reinforcing elements (synthetic geogrids) for wastage and accessories like tie-strips, nuts and bolts and loops/lugs for joining reinforcing elements with the fascia pannels, overlaps and other protective elements for synthetic geogrids and all other activities required to complete the item in all respect including taxes and transportation. 10%				32640.00
	LABOUR				
0028	Mate	day	0.36	320.83	115.50
0017	Beldar	day	6.00	320.83	1924.98
0037	Skilled Beldar	day	3.00	320.83	962.49
	TOATL				362042.97 W
	Add 1 % Water charges on "W"				3620.43
	TOTAL				365663.40 X
	Add GST (multiplying factor 0.1405) on "X"				51375.71
	TOTAL				417039.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				62555.87
	Total				479594.97 Z
	Add Cess @ 1% on "Z"				4795.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 300 Sqm				484390.92
	Cost per Sqm				1614.64
	say				1614.65
26.19	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.				
26.19.1	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.				
	Details of cost for 216.14 sqm				
	Consider a shed of 20x10 metres.				
	(External dimensions of plinth).				
	Area of roof- 20.20x10.70m = 216.14 sqm.				
	MATERIAL:				
	Sheets used = 20 Nosx10.70mx1.044m =				
	223.42 sqm, Add 3% wastage = 6.70 sqm,				
	Total = 230.12sqm				
8977	Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	230.12	600.00	138072.00
9999	Carriage of sheets	L.S.	104.00	2.00	208.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	47.60	120.00	5712.00
1208	Bitumen washer	100 Nos	4.76	30.00	142.80
1209	G.I. plain washer thick	100 Nos	4.76	35.00	166.60
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	39.52	2.00	79.04
	LABOUR:				
0030	Mistry	day	2.34	476.00	1113.84
0015	Carpenter 2nd class	day	9.34	374.50	3497.83
0017	Beldar	day	9.34	320.83	2996.55
	Total				152004.78 W
	Add 1 % Water charges on "W"				1520.05
	TOTAL				153524.83 X
	Add GST (multiplying factor 0.1405) on "X"				21570.24
	TOTAL				175095.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				26264.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				201359.33 Z
	Add Cess @ 1% on "Z"				2013.59
	Cost of 216.14 sqm				203372.92
	Cost of 1 sqm				940.93
	Say				940.95
26.19.2	0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.				
	Details of cost for 216.14 sqm				
	Consider a shed of 20x10 metres.				
	(External dimensions of plinth).				
	Area of roof- 20.05x10.70m = 216.14 sqm.				
	MATERIAL:				
	Sheets used = 20 Nosx10.70mx1.044m =				
	223.42 sqm, Add 3% wastage = 6.70 sqm,				
	Total = 230.12sqm				
8978	Aluminium profile industrial troughed sheet of Alloy 31500/31000/ 40800, conforming to IS 1254, IS 737, IS 2676, 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	230.12	785.00	180644.20
9999	Carriage of sheets	L.S.	104.00	2.00	208.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	47.60	120.00	5712.00
1208	Bitumen washer	100 Nos	4.76	30.00	142.80
1209	G.I. plain washer thick	100 Nos	4.76	35.00	166.60
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.06	2.00	16.12
9999	Sundries	L.S.	39.52	2.00	79.04
	LABOUR:				
0030	Mistry	day	2.34	476.00	1113.84
0015	Carpenter 2nd class	day	9.34	374.50	3497.83
0017	Beldar	day	9.34	320.83	2996.55
	Total				194576.98 W
	Add 1 % Water charges on "W"				1945.77
	TOTAL				196522.75 X
	Add GST (multiplying factor 0.1405) on "X"				27611.45
	TOTAL				224134.20 Y
	Add 15 % Contractor's profit and overheads on "Y"				33620.13
	Total				257754.33 Z
	Add Cess @ 1% on "Z"				2577.54
	Cost of 216.14 sqm				260331.87
	Cost of 1 sqm				1204.46
	Say				1204.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.22	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991,in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of mainT runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
26.22.1	With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles. Details of cost for 100 sqm MATERIAL				
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick Ceiling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	685.00	71925.00
8590	Galvanised iron main Tee ceiling section Size 24x38x0.33 mm (3 metre long) including wastage @10%	each	29.50	120.00	3540.00
8591	Galvanised iron perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long) including wastage @10%	each	13.50	65.00	877.50
8592	Galvanised iron intermediate cross T section Size 24 x 32 x 0.33 mm (1.2 metre long) including wastage @10%	each	147.00	40.00	5880.00
8593	Galvanised iron intermediate cross T section Size 24 x 32 x 0.33 mm (0.6 metre long) including wastage @10%	each	147.00	20.00	2940.00
8588	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8596	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72.00	32.00	2304.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8211	40 mm long S.S screws with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Scaffolding etc.	L.S.	498.65	2.00	997.30
9977	Carriage of materials etc.	L.S.	237.48	2.00	474.96
9999	Sundries	L.S.	310.70	2.00	621.40
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				113434.25 W
	Add 1 % Water charges on "W"				1134.34
	TOTAL				114568.59 X
	Add GST (multiplying factor 0.1405) on "X"				16096.89
	TOTAL				130665.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				19599.82
	Total				150265.30 Z
	Add Cess @ 1% on "Z"				1502.65
	Cost of 100 sqm.				151767.95
	Cost of 1 sqm.				1517.68
	Say				1517.70

26.23 Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6 mm reveal profile (white/black), comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-inCharge.

26.23.1 With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles

Details of cost for 100 sqm
MATERIAL

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8563	15 mm thick, light weight, integral densified micro look edged, false ceiling tiles of size 595x595 mm. Celling Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm SILHOUETTE Profile grid frame :	sqm	105.00	720.00	75600.00
8567	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long) including wastage @10%	each	13.50	115.00	1552.50
8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long) including wastage @10%	each	29.50	235.00	6932.50
8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long) including wastage @10%	each	147.00	95.00	13965.00
8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long) including wastage @10%	each	147.00	47.00	6909.00
8588	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72.00	31.00	2232.00
8211	40 mm long S.S screws with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Scaffolding etc.	L.S.	498.65	2.00	997.30
9977	Carriage of materials etc.	L.S.	237.48	2.00	474.96
9999	Sundries	L.S.	310.70	2.00	621.40
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				133158.75 W
	Add 1 % Water charges on "W"				1331.59
	TOTAL				134490.34 X
	Add GST (multiplying factor 0.1405) on "X"				18895.89
	TOTAL				153386.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				23007.93
	Total				176394.16 Z
	Add Cess @ 1% on "Z"				1763.94
	Cost of 100 sqm.				178158.11
	Cost of 1 sqm.				1781.58
	Say				1781.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.24	Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm, having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32mm fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horizontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre)roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.				
26.24.1	With 15 mm thick fully perforated square/butt edge light weight calcium silicate panels/ tiles Details of cost for 6.00 x 3.65=21.90 sqm MATERIAL				
8564	15 mm thick, light weight,fully perforated square/butt edge integral densified,false ceiling tiles of size 595x595 mm. 21.90 sqm + 1.10 sqm (Add 5% wastage) Total = 23.00 sqm	sqm	23.000	900.00	20700.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2 x 6.00 m=12m +0.60 (Add 5% wastage) = 12.60 m	metre	12.600	57.00	718.20
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 11 x 3.65 m = 40.15 m + 5 x 6.00 = 30.00 m Total= 70.15 m +3.51 (Add 5% wastage) Total = 73.66m	metre	73.660	71.00	5229.86
7025	Self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm	1000 Nos	0.392	525.00	205.80
7383	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner	each	19.000	7.00	133.00
7274	Glass wool 50 mm thick 21.90 +1.10 (Add 5% wastage) = 23.00 sqm	sqm	23.000	238.00	5474.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
764	Calcium silicate base compound for jointing calcium silicate tiles 22.81/103.68 x 21.9 = 4.82 kgs	kg	4.820	26.00	125.32
7026	Fibre joint tape 50 mm wide (90 metre) roll 1.27/103.68 x 21.90 = 0.27 roll	each roll	0.270	165.00	44.55
9999	Sundries such as scaffolding, tools, bits, etc.	L.S.	130.000	2.00	260.00
9977	Carriage of materials etc.	L.S.	52.000	2.00	104.00
	LABOUR				
0014	Carpenter 1st class 0.30x21.90=6.57 days	day	6.570	476.00	3127.32
0015	Carpenter 2nd class 0.13x21.90=2.847 days	day	2.847	374.50	1066.20
0017	Beldar 0.35x21.90=7.665 days	day	7.665	320.83	2459.16
0031	Painter	day	1.095	374.50	410.08
	TOTAL				40057.49 W
	Add 1 % Water charges on "W"				400.57
	TOTAL				40458.07 X
	Add GST (multiplying factor 0.1405) on "X"				5684.36
	TOTAL				46142.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				6921.36
	Total				53063.79 Z
	Add Cess @ 1% on "Z"				530.64
	Cost of 21.90 sqm.				53594.43
	Cost of 1 sqm.				2447.23
	Say				2447.25
26.25	Providing and fixing 15 mm thick false ceiling tiles at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991,in true horizontal level on the existing frame work consisting of T-sections and Lsections suitably fixed according to tile size as per direction of Engineer-in-charge.				
	Details of cost for 10 Sqm				
	MATERIAL				
8589	Calcium Silicate tegular edged ceiling tiles	sqm	10.50	685.00	7192.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	595x595 mm and 15 mm thick 10 + 0.5 (Add wastage @5%) = 10.5 sqm				
9977	Carriage	L.S.	14.95	2.00	29.90
	LABOUR				
0014	Carpenter 1st class	day	2.50	476.00	1190.00
0017	Beldar	day	2.00	320.83	641.66
9999	Scaffolding	L.S.	31.07	2.00	62.14
9999	Sundries	L.S.	31.07	2.00	62.14
	TOTAL				9178.34 W
	Add 1 % Water charges on "W"				91.78
	TOTAL				9270.12 X
	Add GST (multiplying factor 0.1405) on "X"				1302.45
	TOTAL				10572.58 Y
	Add 15 % Contractor's profit and overheads on "Y"				1585.89
	Total				12158.46 Z
	Add Cess @ 1% on "Z"				121.58
	Cost of 10 sqm				12280.05
	Cost of 1 sqm				1228.00
	Say				1228.00
26.26	26.26 Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.				
26.26.1	With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm				
	MATERIAL				
	Celling area =100 sqm				
	Add wastage @ 5% = 5 sqm				
	Total=105.00 sqm				
8581	12 mm thick micro tegular edged semi perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	105.00	510.00	53550.00
8555	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long)	each	29.50	185.00	5457.50
	Including wastage @ 10%				
8591	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long)	each	13.50	65.00	877.50
	Including wastage @ 10%				
8556	Galvanized iron intermediate cross-T section 15x32x0.33 mm (1200 mm long)	each	147.00	78.00	11466.00
	Including wastage @ 10%				
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600 mm long)	each	147.00	35.00	5145.00
	Including wastage @ 10%				
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000 mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	72.00	32.00	2304.00
8211	40mm SS with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Scaffolding etc.	L.S.	498.65	2.00	997.30
9977	Carriage of materials etc.	L.S.	237.48	2.00	474.96
9999	Sundries	L.S.	310.70	2.00	621.40
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				104767.75 W
	Add 1 % Water charges on "W"				1047.68
	TOTAL				105815.43 X
	Add GST (multiplying factor 0.1405) on "X"				14867.07
	TOTAL				120682.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				18102.37
	Total				138784.87 Z
	Add Cess @ 1% on "Z"				1387.85
	Cost of 100 sqm				140172.72
	Cost of 1 sqm				1401.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				1401.75
26.26.2	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.				
	Details of cost for 100 sqm				
	MATERIAL				
	Celling area =100 sqm				
	Add wastage @ 5% = 5 sqm				
	Total=105.00 sqm				
8582	12 mm thick micro tegular edged fully perforated GFRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x 595 mm	sqm	105.00	600.00	63000.00
8555	Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) Including wastage @ 10%	each	29.50	185.00	5457.50
8591	Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) Including wastage @ 10%	each	13.50	65.00	877.50
8556	Galvanized iron intermediate cross-T section 15x32x0.33 mm (1200 mm long) Including wastage @ 10%	each	147.00	78.00	11466.00
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600 mm long) Including wastage @ 10%	each	147.00	35.00	5145.00
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000 mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	72.00	32.00	2304.00
8211	40mm long SS screws with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Scaffolding etc.	L.S.	498.65	2.00	997.30
9977	Carriage of materials etc.	L.S.	237.48	2.00	474.96
9999	Sundries	L.S.	310.70	2.00	621.40
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				114217.75 W
	Add 1 % Water charges on "W"				1142.18
	TOTAL				115359.93 X
	Add GST (multiplying factor 0.1405) on "X"				16208.07
	TOTAL				131568.00 Y
	Add 15 % Contractor's profit and overheads on "Y"				19735.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				151303.20 Z
	Add Cess @ 1% on "Z"				1513.03
	Cost of 100 sqm				152816.23
	Cost of 1 sqm				1528.16
	Say				1528.15

26.27 Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ?85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.

26.27.1 With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)

Details of cost for 100 Sqm

MATERIAL

8552	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick Area = 100 sqm + 5 sqm (Add for wastage @5%) Total = 105 sqm	sqm	105.00	830.00	87150.00
8555	G.I. main runner 15X32mm of 3000 mm length, 0.33mm thick including 10 % wastage	each	29.50	185.00	5457.50
8556	G.I. cross Tee 15X32mm of 1200mm length 0.33mm thick including 10 % wastage	each	147.00	78.00	11466.00
8557	G.I. cross Tee 15X32mm of 600mm length, 0.33 mm thick including 10 % wastage	each	147.00	35.00	5145.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long) including 10 % wastage	each	13.50	65.00	877.50
8558	Galvanised Iron hanger rod 6mm dia fully threaded upto 1000mm length	each	72.00	26.00	1872.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72.00	31.00	2232.00
8211	40 mm long S.S screws with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Sundries i.e. scaffolding etc	L.S.	187.95	2.00	375.90
9977	Carriage of material etc.	L.S.	89.35	2.00	178.70
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				136756.69 W
	Add 1 % Water charges on "W"				1367.57
	TOTAL				138124.26 X
	Add GST (multiplying factor 0.1405) on "X"				19406.46
	TOTAL				157530.71 Y
	Add 15 % Contractor's profit and overheads on "Y"				23629.61
	Total				181160.32 Z
	Add Cess @ 1% on "Z"				1811.60
	Cost of 100 sqm				182971.93
	Cost of 1 sqm				1829.72
	Say				1829.70

26.27.2 With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)

Details of cost for 100 Sqm

MATERIAL

8554	Mineral fibre beveled tegular edged ceiling tiles 595x595mm, 20 mm thick Area = 100 sqm + 5 sqm (Add for wastage @5%) Total = 105 sqm	sqm	105.00	1040.00	109200.00
8555	G.I. main runner 15X32mm of 3000 mm length, 0.33mm thick including 10 % wastage	each	29.50	185.00	5457.50
8556	G.I. cross Tee 15X32mm of 1200mm length 0.33mm thick including 10 % wastage	each	147.00	78.00	11466.00
8587	G.I. cross Tee 15X32mm of 600mm length, 0.33 mm thick including 10 % wastage	each	147.00	35.00	5145.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long) including 10 % wastage	each	13.50	65.00	877.50
8558	Galvanised Iron hanger rod 6mm dia fully threaded upto 1000mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8596	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72.00	32.00	2304.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8211	40 mm long S.S screws with plastic rawl plugs	100 nos	1.00	215.00	215.00
9999	Sundries i.e. scaffolding etc	L.S.	187.95	2.00	375.90
9977	Carriage of material etc.	L.S.	89.35	2.00	178.70
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				158878.69 W
	Add 1 % Water charges on "W"				1588.79
	TOTAL				160467.48 X
	Add GST (multiplying factor 0.1405) on "X"				22545.68
	TOTAL				183013.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				27451.97
	Total				210465.13 Z
	Add Cess @ 1% on "Z"				2104.65
	Cost of 100 sqm				212569.78
	Cost of 1 sqm				2125.70
	Say				2125.70
26.27.3	With 16 mm thick beveled tegular mineral fibre Anti-microbial false ceiling tile confirming to ISO 5 (class 100) specifications				
	Details of cost for 100 Sqm				
	MATERIAL				
8553	Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick with bioblock, confirming to ISO 5 (class 100) specifications	sqm	105.00	920.00	96600.00
	Area = 100 sqm + 5 sqm (Add for wastage @5%) Total = 105 sqm				
8555	G.I. main runner 15X32mm of 3000 mm length, 0.33mm thick including 10 % wastage	each	29.50	185.00	5457.50
8556	G.I. cross Tee 15X32mm of 1200mm length 0.33mm thick including 10 % wastage	each	147.00	78.00	11466.00
8557	G.I. cross Tee 15X32mm of 600mm length, 0.33 mm thick including 10 % wastage	each	147.00	35.00	5145.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long) including 10 % wastage	each	13.50	65.00	877.50
8558	Galvanised Iron hanger rod 6mm dia fully threaded upto 1000mm length	each	72.00	26.00	1872.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	72.00	15.00	1080.00
8596	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	72.00	32.00	2304.00
8211	40 mm long S.S screws with plastic rawl plugs	100 nos	1.00	215.00	215.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries i.e. scaffolding etc	L.S.	187.95	2.00	375.90
9977	Carriage of material etc.	L.S.	89.35	2.00	178.70
	LABOUR				
0014	Carpenter 1st class	day	28.00	476.00	13328.00
0017	Beldar	day	23.00	320.83	7379.09
	TOTAL				146278.69 W
	Add 1 % Water charges on "W"				1462.79
	TOTAL				147741.48 X
	Add GST (multiplying factor 0.1405) on "X"				20757.68
	TOTAL				168499.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				25274.87
	Total				193774.03 Z
	Add Cess @ 1% on "Z"				1937.74
	Cost of 100 sqm				195711.77
	Cost of 1 sqm				1957.12
	Say				1957.10
26.28	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge				
26.28.1	75mm average thickness				
	Details of cost for One Sqm				
	75mm average thickness for beams				
	MACHINERY				
9999	Hire charges for HILTY-TE 504 Pneumatic	L.S.	5.60	2.00	11.20
	Chisel				
	LABOUR				
0042	Machine Operator	day	0.20	392.00	78.40
0017	Beldar	day	0.10	320.83	32.08
	TOTAL				121.68 W
	Add 1 % Water charges on "W"				1.22
	TOTAL				122.90 X
	Add GST (multiplying factor 0.1405) on "X"				17.27
	TOTAL				140.17 Y
	Add 15 % Contractor's profit and overheads on "Y"				21.03
	Total				161.19 Z
	Add Cess @ 1% on "Z"				1.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1.0 sqm				162.80
	Say				162.80
26.28.2	50mm average thickness				
	Details of cost for One Sqm				
	50mm average thickness for beams				
	MACHINERY				
9999	Hire charges for HILTY-TE 504 Pneumatic Chisel	L.S.	3.74	2.00	7.48
	LABOUR				
0042	Machine Operator	day	0.134	392.00	52.53
0017	Beldar	day	0.07	320.83	22.46
	TOTAL				82.47 W
	Add 1 % Water charges on "W"				0.82
	TOTAL				83.29 X
	Add GST (multiplying factor 0.1405) on "X"				11.70
	TOTAL				94.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				14.25
	Total				109.24 Z
	Add Cess @ 1% on "Z"				1.09
	Cost of 1.0 sqm				110.33
	Say				110.35
26.28.3	25 mm average thickness				
	Details of cost for One Sqm				
	25mm average thickness for beams				
	MACHINERY				
9999	Hire charges for HILTY-TE 504 Pneumatic Chisel	L.S.	1.87	2.00	3.74
	LABOUR				
0042	Machine Operator	day	0.07	392.00	27.44
0017	Beldar	day	0.03	320.83	9.62
	TOTAL				40.80 W
	Add 1 % Water charges on "W"				0.41
	TOTAL				41.21 X
	Add GST (multiplying factor 0.1405) on "X"				5.79
	TOTAL				47.00 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				7.05
	Total				54.05 Z
	Add Cess @ 1% on "Z"				0.54
	Cost of 1.0 sqm				54.59
	Say				54.60
26.29	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
26.29.1	Bars upto 12 mm diameter				
	Detail of cost for 3.00 sqm (95.54 meter length of 10 mm dia bar)				
	Bars upto 12 mm diameter				
	(1 litre chemical shall cover 3.00 sqm area of bars)				
	MATERIALS				
7911	Chemical Rust Remover	litre	1.00	210.00	210.00
	LABOUR				
	(Application charges for 3.0 sqm)				
0031	Painter	day	0.162	374.50	60.67
0018	Coolie	day	0.162	320.83	51.97
9999	Putty, brush, sand paper	L.S.	3.162	2.00	6.32
9999	Sundries	L.S.	1.98	2.00	3.96
	TOTAL				332.93 W
	Add 1 % Water charges on "W"				3.33
	TOTAL				336.26 X
	Add GST (multiplying factor 0.1405) on "X"				47.24
	TOTAL				383.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.53
	Total				441.03 Z
	Add Cess @ 1% on "Z"				4.41
	Cost of 3 sqm (95.54 m length of 10 mm dia bar)				445.44
	Rate per meter length of bar				4.66
	Say				4.65
26.29.2	Bars above 12 mm diameter				
	Detail of cost for 3.00 sqm (47.78 meter length of 20 mm dia bar) Bars above 12 mm diameter				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(1 litre chemical shall cover 3.00 sqm area of bars)				
	MATERIALS				
7911	Chemical Rust Remover	litre	1.00	210.00	210.00
	LABOUR				
	(Application charges for 3.0 sqm)				
0031	Painter	day	0.162	374.50	60.67
0018	Coolie	day	0.162	320.83	51.97
9999	Putty, brush, sand paper	L.S.	3.162	2.00	6.32
9999	Sundries	L.S.	1.98	2.00	3.96
	TOTAL				332.93 W
	Add 1 % Water charges on "W"				3.33
	TOTAL				336.26 X
	Add GST (multiplying factor 0.1405) on "X"				47.24
	TOTAL				383.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				57.53
	Total				441.03 Z
	Add Cess @ 1% on "Z"				4.41
	Cost of 3.00 sqm (47.78m length of 20 mm dia bar)				445.44
	Rate per meter length of bar				9.32
	Say				9.30
26.30	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.				
26.30.1	Upto and including 12mm dia.				
	Details of cost for 10 holes				
	MATERIAL				
7913	Epoxy	kg	0.20	585.00	117.00
	Approx unit Weight of Epoxy= 2000kg/cum or 2qm/cucm				
	Volume of Epoxy filled = $3.14/4[(1.5)^2(1.2)^2] \times 15.5\text{cm} = 9.86\text{cucm}$				
	Weight of Epoxy for 10 holes = $10 \times 9.86 \times 2$				
	= 197.20 gms say 200gms = 0.2 kg				
	MACHINERY				
084	Hire charges of Drill machine upto 30 mm dia	day	0.50	160.00	80.00
	LABOUR				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0019	Fitter (grade 1)	day	0.50	476.00	238.00
0017	Beldar	day	0.50	320.83	160.42
	TOTAL				595.42 W
	Add 1 % Water charges on "W"				5.95
	TOTAL				601.37 X
	Add GST (multiplying factor 0.1405) on "X"				84.49
	TOTAL				685.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				102.88
	Total				788.74 Z
	Add Cess @ 1% on "Z"				7.89
	Rate for 10 holes				796.63
	Rate for one hole				79.66
	Say				79.65
26.31	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.				
26.31.1 r	SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer				
	Details of Cost for 10.00 Sqm bonding coat				
	MATERIAL				
367	Portland Cement (OPC-43 grade)	tonne	0.022	4940.00	108.68
7914	SBR Polymer	kg	2.2	190.00	418.00
	@ 10% of cement weight= 22.00kgx10% =2.2 kg				
	LABOUR				
0040	Mason (average)	day	0.27	374.50	101.12
0018	Coolie	day	0.27	320.83	86.62
9999	Scaffolding and sundries (8.06/2=4.03)	L.S.	4.03	2.00	8.06
	TOTAL				722.48 W
	Add 1 % Water charges on "W"				7.22
	TOTAL				729.70 X
	Add GST (multiplying factor 0.1405) on "X"				102.52
	TOTAL				832.23 Y
	Add 15 % Contractor's profit and overheads on "Y"				124.83
	Total				957.06 Z
	Add Cess @ 1% on "Z"				9.57

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 10.00 sqm				966.63
	Rate per sqm				96.66
	Say				96.65
26.31.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make				
	Details of Cost for 2.20 Sqm				
7913	Epoxy	kg	1.00	585.00	585.00
9999	Application charge for applying bonding coat of Epoxy	L.S.	18.50	2.00	37.00
9999	Cost of brushes etc.	L.S.	8.40	2.00	16.80
	TOTAL				638.80 W
	Add 1 % Water charges on "W"				6.39
	TOTAL				645.19 X
	Add GST (multiplying factor 0.1405) on "X"				90.65
	TOTAL				735.84 Y
	Add 15 % Contractor's profit and overheads on "Y"				110.38
	Total				846.21 Z
	Add Cess @ 1% on "Z"				8.46
	Cost for 2.20 sqm				854.67
	Rate per sqm				388.49
	Say				388.50
26.32	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.				
Note:	Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm ²).				
26.32.1	12 mm average thickness.				
	Details of Cost for 10 Sqm				
	MATERIAL				
	Cement mortar 1:4 (1 cement : 4 coarse sand) = 0.144 Cum				
3.9	Rate as per Item No.3.9 of SH:MORTARS	cum	0.144	3815.05	549.37
7914	SBR Polymer	kg	1.10	190.00	209.00
	Qty of cement in mortar= 0.144x0.38 = 0.055 MT or 55kg @ 2% of weight of cement 55kgx2%=1.10 kg				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR				
0040	Mason (average)	day	0.67	374.50	250.92
0018	Coolie	day	0.75	320.83	240.62
0011	Bhisti	day	0.92	320.83	295.16
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				1570.29 W
	Add 1 % Water charges on "W"				15.70
	TOTAL				1585.99 X
	Add GST (multiplying factor 0.1405) on "X"				222.83
	TOTAL				1808.82 Y
	Add 15 % Contractor's profit and overheads on "Y"				271.32
	Total				2080.15 Z
	Add Cess @ 1% on "Z"				20.80
	Cost for 10 sqm				2100.95
	Rate per sqm				210.09
	Say				210.10

26.32.2 25 mm average thickness in 2 layers.

Details of Cost for 10 Sqm

MATERIAL

Cement mortar 1:4 (1 cement : 4 coarse sand)
 $= (0.144/12) \times 25 = 0.30$ Cum

3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.30	3815.05	1144.51
7914	SBR Polymer	kg	2.28	190.00	433.20

Cement $0.30 \times 0.38 = 0.114$ MT OR 114 kg

@ 2% of weight of cement $114 \text{ kg} \times 2\%$

=2.28kg

LABOUR

0040	Mason (average)	day	0.94	374.50	352.03
0018	Coolie	day	1.02	320.83	327.25
0011	Bhisti	day	1.01	320.83	324.04
9999	Scaffolding and sundries	L.S.	12.61	2.00	25.22
	TOTAL				2606.25 W
	Add 1 % Water charges on "W"				26.06
	TOTAL				2632.31 X
	Add GST (multiplying factor 0.1405) on "X"				369.84
	TOTAL				3002.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				450.32
	Total				3452.47 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				34.52
	Cost for 10 sqm				3487.00
	Rate per sqm				348.70
	Say				348.70
26.32.3	50 mm average thickness in 3 layers.				
	Details of Cost for 10 Sqm				
	MATERIAL				
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	0.144/12)x50= 0.60 Cum				
3.9	Rate as per Item No.3.9 of SH: MORTARS	cum	0.60	3815.05	2289.03
7914	SBR Polymer	kg	4.56	190.00	866.40
	Cement 0.60x0.38 = 0.228 MT OR 228 kg				
	@ 2% of weight of cement 228kgx2%				
	=4.56 kg				
	LABOUR				
0040	Mason (average)	day	1.88	374.50	704.06
0018	Coolie	day	2.04	320.83	654.49
0011	Bhisti	day	2.02	320.83	648.08
9999	Scaffolding and sundries	L.S.	25.22	2.00	50.44
	TOTAL				5212.50 W
	Add 1 % Water charges on "W"				52.12
	TOTAL				5264.62 X
	Add GST (multiplying factor 0.1405) on "X"				739.68
	TOTAL				6004.30 Y
	Add 15 % Contractor's profit and overheads on "Y"				900.65
	Total				6904.95 Z
	Add Cess @ 1% on "Z"				69.05
	Cost for 10 sqm				6974.00
	Rate per sqm				697.40
	Say				697.40
26.33	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)

26.33.1 50mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm area (0.5cum)

M25 concrete 0.5 cum of concrete@

330 kg/cum

5.33.2	Rate as per Item No.5.33.2 of SH: Reinforced Cement Concrete	cum	0.5	7741.90	3870.95 A
009	Deduction of pumping charges				
	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	-0.5	210.00	-105.00
7914	SBR Polymer @2% of cement 165 kg = 165X2% = 3.3 kg	kg	3.3	190.00	627.00
	TOTAL				4392.95 W
	Add 1 % Water charges on "W-A"	522.00			5.22
	TOTAL				4398.17 X
	Add GST (multiplying factor 0.1405) on "X-A"	527.22			74.07
	TOTAL				4472.25 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	601.29			90.19
	Total				4562.44 Z
	Add Cess @ 1% on "Z-A"	691.49			6.91
	Cost of 10 sqm				4569.35
	Cost of 1 sqm				456.94
	Say				456.95

26.33.2 75mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm area (0.75cum)

M25 concrete 0.75 cum of concrete@

330 kg/cum

5.33.2	Rate as per Item No.5.33.2 of SH: Reinforced Cement Concrete	cum	0.75	7741.90	5806.43 A
	Deduction of pumping charges				
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	-0.75	210.00	-157.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7914	SBR Polymer @2% of cement 247.50 kg = 247.50X2% = 4.95 kg TOTAL	kg	4.95	190.00	940.50 6589.43 W
	Add 1 % Water charges on "W-A"	783.00			7.83 6597.26 X
	TOTAL				
	Add GST (multiplying factor 0.1405) on "X-A"	790.83			111.11 6708.37 Y
	TOTAL				
	Add 15 % Contractor's profit and overheads on "Y-A"	901.94			135.29 6843.66 Z
	Total				
	Add Cess @ 1% on "Z-A"	1037.23			10.37 6854.03
	Cost of 10 sqm				685.40
	Cost of 1 sqm				685.40
	Say				685.40

26.34 Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member.

Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)

26.34.1 50mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm area (0.5cum) M25 concrete 0.5 cum of concrete with cement content 330 kg/cum					
5.33.2	Rate as per Item No.5.33.2 of	cum	0.50	7741.90	3870.95 A
	SH: Reinforced Cement Concrete				
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	-0.50	210.00	-105.00
7914	SBR Polymer @2% of cement 165 kg = 165X2% = 3.3 kg TOTAL	kg	3.30	190.00	627.00 4392.95 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	Add 1 % Water charges on "W-A"	522.00			5.22	
	TOTAL				4398.17	X
	Add GST (multiplying factor 0.1405) on "X-A"	527.22			74.07	
	TOTAL				4472.25	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	601.29			90.19	
	Total				4562.44	Z
	Add Cess @ 1% on "Z-A"	691.49			6.91	
	Cost of 10 sqm				4569.35	
	Cost of 1 sqm				456.94	
	Say				456.95	
26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum					
	Detail of cost for 10 sqm area (0.75cum) M25 concrete 0.75 cum of concrete with cement content 330 kg/cum					
5.33.2	Rate as per Item No.5.33.2 of	cum	0.75	7741.90	5806.43	A
	SH: Reinforced Cement Concrete				0.00	
009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	-0.75	210.00	-157.50	
7914	SBR Polymer @2% of cement 247.50 kg = 247.50X2% = 4.95 kg	kg	4.95	190.00	940.50	
	TOTAL				6589.43	W
	Add 1 % Water charges on "W-A"	783.00			7.83	
	TOTAL				6597.26	X
	Add GST (multiplying factor 0.1405) on "X-A"	790.83			111.11	
	TOTAL				6708.37	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	901.94			135.29	
	Total				6843.66	Z
	Add Cess @ 1% on "Z-A"	1037.23			10.37	
	Cost of 10 sqm				6854.03	
	Cost of 1 sqm				685.40	
	Say				685.40	
26.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum					
	Detail of cost for 10 sqm area (1.00 cum) M25 concrete 1.00 cum of concrete with cement content 330 kg/cum					
5.33.2	Rate as per Item No.5.33.2 of	cum	1.00	7741.90	7741.90	A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
009	SH: Reinforced Cement Concrete Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	-1.00	210.00	-210.00
7914	SBR Polymer @2% of cement 330 kg = 330X2% = 6.6 kg TOTAL	kg	6.60	190.00	1254.00
	Add 1 % Water charges on "W-A"	1044.00			10.44
	TOTAL				8796.34 X
	Add GST (multiplying factor 0.1405) on "X-A"	1054.44			148.15
	TOTAL				8944.49 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	1202.59			180.39
	Total				9124.88 Z
	Add Cess @ 1% on "Z-A"	1382.98			13.83
	Cost of 10 sqm				9138.71
	Cost of 1 sqm				913.87
	Say				913.85
26.35	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)				
26.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/ RCC work				
	Detail of cost for 100 kg Acrylic polymer mixed cement grout MATERIAL				
7927	Acrylic Polymer chemical for cracks Considering 1 kg of cement grout mixed with non shrink polymer compound with cement @ 2% of cement	kg	2.00	31.00	62.00
367	Portland Cement (OPC-43 grade)	tonne	0.10	4940.00	494.00
9977	Carriage of materials	L.S.	1.00	2.00	2.00
9999	Injecting charges of Stirrer mixed polymer grout Gun, rubber, pipe and other accessories hire charges of plant, machinery including necessary fuel and transportation of site	L.S.	2250.00	2.00	4500.00
	LABOUR				
0022	Foreman	day	1.00	476.00	476.00
0042	Nozzleman	day	1.00	392.00	392.00
0042	Pump Operator	day	1.00	392.00	392.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6318.00 W
	Add 1 % Water charges on "W"				63.18
	TOTAL				6381.18 X
	Add GST (multiplying factor 0.1405) on "X"				896.56
	TOTAL				7277.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				1091.66
	Total				8369.40 Z
	Add Cess @ 1% on "Z"				83.69
	Cost of 100 kg				8453.09
	Cost of 1 kg				84.53
	Say				84.55
26.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.				
	Detail of cost for 100 kg of SBR polymer				
	mixed cement grout MATERIAL				
7914	SBR Polymer for crack	kg	2.00	190.00	380.00
367	Portland Cement (OPC-43 grade)	tonne	0.10	4940.00	494.00
9977	Carriage of materials	L.S.	1.00	2.00	2.00
9999	Injecting charges of Stirrer mixed polymer grout Gun, rubber, pipe and other accessories hire charges of plant, machinery including necessary fuel and transportation of site Rs 4000/- per day including plant shall be used of doing approximate 50 sqm Hence cost per sqm (4000/50 = 80)	L.S.	2250.00	2.00	4500.00
	LABOUR				
0022	Foreman	day	1.00	476.00	476.00
0042	Nozzle Operator	day	1.00	392.00	392.00
0042	Pump Operator	day	1.00	392.00	392.00
	TOTAL				6636.00 W
	Add 1 % Water charges on "W"				66.36
	TOTAL				6702.36 X
	Add GST (multiplying factor 0.1405) on "X"				941.68
	TOTAL				7644.04 Y
	Add 15 % Contractor's profit and overheads on "Y"				1146.61
	Total				8790.65 Z
	Add Cess @ 1% on "Z"				87.91
	Cost of 100 kg				8878.55
	Cost of 1 kg				88.79
	Say				88.80

26.35.3 Epoxy injection grout in concrete/RCC work of approved make

Details of cost for 10kg Epoxy grout

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL				
7913	Epoxy	kg	10.00	585.00	5850.00
088	Hire charges of Plant and machinery, it can inject - 350kg/day	day	0.03	200.00	6.00
	LABOUR				
0017	Beldar	day	0.06	320.83	19.25
0042	Nozzle Operator	day	0.03	392.00	11.76
9999	Sundries (gloves goggles etc.)	L.S.	5.00	2.00	10.00
	TOTAL				5897.01 W
	Add 1 % Water charges on "W"				58.97
	TOTAL				5955.98 X
	Add GST (multiplying factor 0.1405) on "X"				836.82
	TOTAL				6792.80 Y
	Add 15 % Contractor's profit and overheads on "Y"				1018.92
	Total				7811.71 Z
	Add Cess @ 1% on "Z"				78.12
	Cost of 10 kg				7889.83
	Cost of 1 kg				788.98
	Say				789.00
26.36	Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineerin-charge.				
26.36.1	Wooven PVC cloth				
	Details of cost for 10 sqm				
	MATERIAL				
7915	Wooven PVC cloth	sqm	10	25.00	250.00
9999	Fixing double scaffolding outside	L.S.	11	2.00	22.00
	Total Material				272.00
	LABOUR				
	For fixing and removal after complete of work @25%				68.00
	TOTAL				340.00 W
	Add 1 % Water charges on "W"				3.40
	TOTAL				343.40 X
	Add GST (multiplying factor 0.1405) on "X"				48.25
	TOTAL				391.65 Y
	Add 15 % Contractor's profit and overheads on "Y"				58.75
	Total				450.39 Z
	Add Cess @ 1% on "Z"				4.50
	Rate for 10 sqm				454.90
	Rate for 1 sqm				45.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				45.50
26.37	Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge.				
	Details of cost for 10 Sqm Machinery				
085	Hire charges of sand blasting equipment (14 sqm per day)	day	0.70	160.00	112.00
086	Hire charges of compressor Material	day	0.70	420.00	294.00
982	Coarse sand	cum	1.00	1350.00	1350.00
	LABOUR				
0017	Beldar	day	0.70	320.83	224.58
9999	Sundries	L.S.	10.00	2.00	20.00
	TOTAL				2000.58 W
	Add 1 % Water charges on "W"				20.01
	TOTAL				2020.59 X
	Add GST (multiplying factor 0.1405) on "X"				283.89
	TOTAL				2304.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				345.67
	Total				2650.15 Z
	Add Cess @ 1% on "Z"				26.50
	Rate for 10 sqm				2676.65
	Rate for 1 sqm				267.67
	Say				267.65

26.38 Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer- in-Charge

Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument.

26.38.1 25mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm

M25 concrete 0.5 cum of concrete@

330 kg/cum

Cubical qty of concrete for 10 sqm

= 10x1.00x0.025 = 0.25 cum

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Wastage 25%, = $0.25 \times 25 / 100 = 0.0625$ cum				
	Total=0.3125 cum				
5.33.2	Rate as per Item No.5.33.2 of SH: Reinforced Cement Concrete Machinery	cum	0.3125	7741.90	2419.34 A
082	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel (approx. 40 sqm area of shotcrete per day = $10/40 = 0.25$ day)	day	0.25	4000.00	1000.00
	Labour				
0042	Operator (Pile/ Special machine)	day	0.40	392.00	156.80
0039	Nozzel man/ gun man	day	0.40	374.50	149.80
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
0045	Helper (Technician)	day	0.80	320.83	256.66
0011	Bhisti	day	0.40	320.83	128.33
	TOTAL				4260.74 W
	Add 1 % Water charges on "W-A"	1841.40			18.41
	TOTAL				4279.15 X
	Add GST (multiplying factor 0.1405) on "X-A"	1859.81			261.30
	TOTAL				4540.46 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2121.11			318.17
	Total				4858.62 Z
	Add Cess @ 1% on "Z-A"	2439.28			24.39
	Cost of 10 sqm				4883.02
	Cost of 1 sqm				488.30
	Say				488.30

26.38.2 50mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm

M25 concrete 0.5 cum of concrete@

330 kg/cum

Cubical qty of concrete for 10 sqm

= $10 \times 1.00 \times 0.050 = 0.50$ cum

Wastage 25%, = $0.50 \times 25 / 100 = 0.125$ cum

Total=0.625 cum

5.33.2	Rate as per Item No.5.33.2 of SH: Reinforced Cement Concrete Machinery	cum	0.625	7741.90	4838.69 A

082	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel (approx. 25 sqm area of shotcrete per day	day	0.40	4000.00	1600.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 10/25 = 0.4 day)				
	Labour				
0042	Operator (Pile/ Special machine)	day	0.40	392.00	156.80
0039	Nozzel man/ gun man	day	0.40	374.50	149.80
0024	Mason (brick layer) 2nd class	day	0.40	374.50	149.80
0045	Helper (Technician)	day	0.80	320.83	256.66
0011	Bhisti	day	0.40	320.83	128.33
	TOTAL				7280.08 W
	Add 1 % Water charges on "W-A"	2441.40			24.41
	TOTAL				7304.50 X
	Add GST (multiplying factor 0.1405) on "X-A"	2465.81			346.45
	TOTAL				7650.95 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	2812.26			421.84
	Total				8072.78 Z
	Add Cess @ 1% on "Z-A"	3234.09			32.34
	Cost of 10 sqm				8105.12
	Cost of 1 sqm				810.51
	Say				810.50

26.38.3 75mm thick in Grade M 25 with cement content not less than 330 kg per cum

Detail of cost for 10 sqm

M25 concrete 0.5 cum of concrete@

330 kg/cum

Cubical qty of concrete for 10 sqm

= 10x1.00x0.025 = 0.25 cum

Wastage 25%, = 0.25x25/100=0.0625 cum

Total=0.3125 cum

5.33.2	Rate as per Item No.5.33.2 of SH: Reinforced Cement Concrete Machinery	cum	0.9375	7741.90	7258.03 A

082	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel (approx. 15 sqm area of shotcrete per day = 10/15 = 0.665 day)	day	0.665	4000.00	2660.00

Labour

0042	Operator (Pile/ Special machine)	day	0.4	392.00	156.80
0039	Nozzel man/ gun man	day	0.4	374.50	149.80
0024	Mason (brick layer) 2nd class	day	0.4	374.50	149.80
0045	Helper (Technician)	day	0.8	320.83	256.66
0011	Bhisti	day	0.4	320.83	128.33

	TOTAL				10759.43 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"	3501.40			35.01
	TOTAL				10794.44 X
	Add GST (multiplying factor 0.1405) on "X-A"	3536.41			496.87
	TOTAL				11291.31 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	4033.28			604.99
	Total				11896.30 Z
	Add Cess @ 1% on "Z-A"	4638.27			46.38
	Cost of 10 sqm				11942.68
	Cost of 1 sqm				1194.27
	Say				1194.25
26.39	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.				
	Details of cost for 20.00 Nos Hole				
	MATERIAL				
7921	Adhesive chemical (750 mm deep & 20 mm Dia Hole) Volume of hole = $20 \times (3.14/4) \times 2.00 \times 2.00 \times 7.5 = 471$ cub cm. Adhesive @ 40% of 471 ml = 188.40 ml, Say 188 ml	ml	188.00	2.00	376.00
7922	Bit of drilling machine for Hole upto 30mm dia (One Bit done 20 Holes only)	each	1.00	500.00	500.00
7923	GI injection nipple 12mm dia, 75mm long	each	20.00	42.00	840.00
7924	Blowing compressed air for cleaning holes upto 30mm dia	each	20.00	10.00	200.00
	LABOUR				
0040	Mason (average)	day	0.50	374.50	187.25
0018	Coolie	day	0.50	320.83	160.42
0011	Bhisti	day	0.50	320.83	160.42
	TOTAL				2424.08 W
	Add 1 % Water charges on "W"				24.24
	TOTAL				2448.32 X
	Add GST (multiplying factor 0.1405) on "X"				343.99
	TOTAL				2792.31 Y
	Add 15 % Contractor's profit and overheads on "Y"				418.85
	Total				3211.16 Z
	Add Cess @ 1% on "Z"				32.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 20 Nos hole				3243.27
	Cost of 1 hole				162.16
	Say				162.15
26.40	Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by Engineer-in-charge.				
	Details of cost for 10.00 sqm (i.e 77.50 kg.)				
	MATERIAL				
7925	L shaped 100mm long, 10mm dia mild steel shear key key to be provided at 0.5 mtr centre to centre in each direction Total no. of Shear key of MS Bar in 10sqm = 25 nos 25x0.10x0.617=1.55 kg	kg	1.55	67.00	103.85
087	Welding charges of shear key to existing reinforcement	each	25.00	5.00	125.00
1021	Hard drawn steel wire fabric 75x25mm, weight 7.75kg/sqm 75x25 mm = 10.00 sqm + Add 5% wastage = 0.50 sqm Total = 10.50 sqm	sqm	10.50	430.00	4515.00
9977	Carriage at site	L.S.	5.61	2.00	11.22
	LABOUR				
0013	Blacksmith 2nd class	day	1.00	374.50	374.50
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				5450.40 W
	Add 1 % Water charges on "W"				54.50
	TOTAL				5504.90 X
	Add GST (multiplying factor 0.1405) on "X"				773.44
	TOTAL				6278.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				941.75
	Total				7220.09 Z
	Add Cess @ 1% on "Z"				72.20
	Cost of 10 sqm				7292.30
	Cost of 1 sqm				729.23
	Say				729.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.41	Designing, providing, installing and fixing factory finished custom designed cold form Light Gauge Steel Framed super structure comprising of steel wall panel, trusses, purlins etc manufactured out of minimum 0.75 mm thick steel sheet as per design requirements. The steel sheet shall be galvanized (AZ-150 gms Aluminium Zinc Alloy coated steel having minimum yield strength 300550 Mpa) conforming to AISI specifications and IBC 2009 for cold formed steel framing and construction and also as per IS: 875-1987, ISO 800-1984 and IS: 801- 1975. The wind load shall be as per provisions of IS 875 (part -III). LGSFS frame shall be designed as per IS: 801 using commercially available software such as Frame CAD Pro-11.7/ STAAD PRO-V8i/ArchitekV2.5.16/ Revit architecture-2011 or equivalent. Proper usage of Connection Accessories like Heavy Duty Tension Ties, Light Duty Hold-ons, Twist Straps (to connect truss with wall frames), Strong Tie, Tie Rod, H-Brackets, Boxing Sections, L-Shaped Angles for better structural stability. The framing section shall be cold form C-type having minimum web depth 89 mm x 39mm flange x 11mm lip in required length as per structural design requirement duly punched with dimple/slot at required locations as per approved drawings. The slots will be along centre line of webs and shall be spaced minimum 250mm away from both ends of the member. The frame can be supplied in panelized or knock down condition in specific dimensions and fastened with screws extending through the steel beyond by minimum of three exposed threads. All self drilling tapping screws for joining the members shall have a Type II coating in accordance with ASTM B633(13) or equivalent corrosion protection of gauge 10 & 12, TPI 16 & 8 of length 20mm. The frames shall be fixed to RCC slab or Tie beam over Neoprene rubber using self expanding carbon steel anchor bolt of dia as per approved drawings. design subject to minimum 12mm diameter and 121mm length conforming to AISI 304 and 316 at 500mm c/c with minimum embedment of 100mm in RCC (RCC to be paid separately) and located not more than 300mm from corners or termination of bottom tracks complete in all respects. The item also includes the submission of stability reports duly examined and issued by any NIT/IIT. The rate includes the concept design, detailed design, fabrication of sections, transportation, installation and all required fixing arrangement at site as described above. Details of cost for 1.00 Kg MATERIAL				
8579	Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/slitting etc. = 1.00 + 0.05 (Add for wastage @5%) = 1.05 kg	kg	1.05	130.00	136.50
9977	Carriage Deduct for	L.S.	1.685	2.00	3.37
8580	Scrap value wastage of cold form light gauge steel	kg	-0.05	17.00	-0.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour for assembling/ fixing etc				
0013	Blacksmith 2nd class	day	0.01	374.50	3.75
0017	Beldar	day	0.03	320.83	9.62
	TOTAL				152.39 W
	Add 1 % Water charges on "W"				1.52
	TOTAL				153.91 X
	Add GST (multiplying factor 0.1405) on "X"				21.62
	TOTAL				175.54 Y
	Add 15 % Contractor's profit and overheads on "Y"				26.33
	Total				201.87 Z
	Add Cess @ 1% on "Z"				2.02
	Cost for 1.00 kg				203.89
	Say				203.90
26.42	Providing and fixing of external wall system on Light gauge steel frame work with . Outer face having 6mm thick heavy duty fiber cement board fixed on 9mm thick heavy duty fiber cement board confirming to IS 14862:2000, category IV type A (High pressure steam cured) as per standard sizes fixed with self-drilling / tapping screws / fasteners @ 60cm c/c of approved make. A groove of 2 mm to 3mm shall be maintained and grooves shall be sealed with silicon based sealant. The board shall be fixed in a staggered pattern.Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm and internal face 12.5mm thick gypsum plaster board fixed on 8mm thick fiber cement board confirming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with selfdrilling / tapping screws / fasteners @ 60cm c/c of approved make, proper tapping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately).				
	Details of cost for 10.00 Sqm				
	MATERIALS				
238	6 mm thick heavy duty fiber cement board	sqm	11	470.00	5170.00
	1x10 = 10 sqm +1.00 (Add for wastage @10%)Total = 11.00 sqm				
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	40	3.00	120.00
240	9 mm thick heavy duty fiber cement board	sqm	11	625.00	6875.00
	1x10 = 10 sqm +1.00 (Add for wastage @10%)Total = 11.00 sqm				
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section Taping and finishing cement board joints	each	40	3.00	120.00
Sub	Filling the groove of 2.3 mm between 6mm				
A/R- 1	and 9mm thick fiber cement boards	sqm	10	84.10	840.98
239	8mm thick heavy duty fiber cement board	sqm	11	300.00	3300.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1x10 = 10 sqm +1.00 (Add for wastage @ 10%)Total = 11.00 sqm				
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	40	3.00	120.00
7009	12.5 mm thick tapered edge gypsum plain board	sqm	11	155.00	1705.00
	1x10 = 10 sqm +1.00 (Add for wastage @10%)Total = 11.00 sqm				
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section Taping and finishing cement board joints	each	40	3.00	120.00
Sub A/R- 2	Filling the groove of 2.3 mm between 8mm thick fiber cement board and 12.5 mm thick gypsum plastic board	sqm	10	226.50	2264.99
	LABOUR				
	For cutting and fixing of cement and gypsum board				
0015	Carpenter 2nd class	day	2	374.50	749.00
0017	Beldar	day	6	320.83	1924.98
	TOTAL				23309.95 W
	Add 1 % Water charges on "W"				233.10
	TOTAL				23543.05 X
	Add GST (multiplying factor 0.1405) on "X"				3307.80
	TOTAL				26850.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				4027.63
	Total				30878.47 Z
	Add Cess @ 1% on "Z"				308.78
	Cost of 10 sqm				31187.26
	Cost of 1 sqm				3118.73
	Say				3118.75
Sub A/R-1	Filling the groove (i.e. 2-3mm gap between boards),taping and jointing of the first layer 6mm and 9mm thick fiber cement boards with epoxy based sealing compound or with silicon sealant. Second layer is fixed over it in a staggered pattern.				
	Details of cost for 1 Sqm				
	MATERIAL				
1248	Epoxy based sealing Compound	kg	0.14	535.00	74.90
	LABOUR				
0015	Carpenter 2nd class	day	0.0132	374.50	4.94
0017	Beldar	day	0.0132	320.83	4.23
	Cost of 1 sqm				84.08
	Say				84.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹

Sub A/R-2 Fill the groove (i.e. 2-3mm gap between boards),taping and jointing 8mm thick fiber cement board and 12.5mm thick gypsum plaster boards with epoxy based sealing compound, Acrylic based sealing compound, Non woven reinforcement Tape as per direction of Engineer in charge.(Use a flexible knife so that no air bubble is entrapped. Allow 1-2 hours gap. Once hard tacky or set, apply a coat of Acrylic based sealing compound paste to flash fill the beveled area. After 2-4 hours go on to repeat a skin coat with Acrylic based sealing compound to securely embed the 40mm width (non woven reinforcement Tape. Use only flexible steel knife, such as provided with packs, to avoid air entrapment within compound. After overnight drying shrinkage apply a coat of acrylic based sealing compound to compensate shrinkage. Finally cover the bevel portion with any suitable overall skin coat with a desired full surface-leveler material).

Details of cost for 1 Sqm

MATERIAL

1248	Epoxy based sealing Compound	kg	0.14	535.00	74.90
1249	Acrylic based sealing compound	kg	0.26	500.00	130.00
1250	Non woven reinforcement Tape	metre	25.00	0.14	3.50

LABOUR

0015	Carpenter 2nd class	day	0.026	374.50	9.74
0017	Beldar	day	0.026	320.83	8.34

Cost of 1 sqm 226.48

Say 226.50

26.43 Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plaster board conforming IS 2095:2011 fixed on 8mm thick fiber cement board conforming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self-drilling / tapping screws / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately)

Details of cost for 10.00 Sqm

MATERIAL

239	8mm thick heavy duty fiber cement board	sqm	22.00	300.00	6600.00
	2x10 = 20 sqm + 2.00 (Add for wastage @10%)= 22.00 sqm				
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section	each	80.00	3.00	240.00
241	12.5 mm thick Gypsum plaster board	sqm	22.00	170.00	3740.00
	2x10 = 20 sqm + 2.00 (Add for wastage @10%)= 22.00 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section Taping and finishing cement board joints	each	80.00	3.00	240.00
Sub	Rate as per Item No.Sub A/R- 2 of SH: Light				
A/R- 2	Gauge Steel Framed Structure (LGSFS)	sqm	10.00	226.50	2264.99
	LABOUR				
	For cutting and fixing of cement and gypsum board				
0015	Carpenter 2nd class	day	1.11	374.50	415.70
0017	Beldar	day	3.33	320.83	1068.36
	TOTAL				14569.04 W
	Add 1 % Water charges on "W"				145.69
	TOTAL				14714.74 X
	Add GST (multiplying factor 0.1405) on "X"				2067.42
	TOTAL				16782.16 Y
	Add 15 % Contractor's profit and overheads on "Y"				2517.32
	Total				19299.48 Z
	Add Cess @ 1% on "Z"				192.99
	Cost of 10 sqm				19492.47
	Cost of 1 sqm				1949.25
	Say				1949.25
26.44	Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiber board as per National Building Code 2009 complete as per direction of Engineer-in-charge.				
	Details of cost for 10.00 Sqm				
	MATERIAL				
2637	Vapour barrier	sqm	11	175.00	1925.00
	10.00 sqm + 1.00 sqm (Add for wastage @10%)				
	= 11.00 sqm				
	LABOUR				
	For fixing fixing 45 sqm vapour barrier				
0015	Carpenter 2nd class	day	0.22	374.50	82.39
0017	Beldar	day	0.22	320.83	70.58
	TOTAL				2077.97 W
	Add 1 % Water charges on "W"				20.78
	TOTAL				2098.75 X
	Add GST (multiplying factor 0.1405) on "X"				294.87
	TOTAL				2393.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				359.04

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				2752.67 Z
	Add Cess @ 1% on "Z"				27.53
	Cost of 10 sqm				2780.20
	Cost of 1 sqm				278.02
	Say				278.00
26.45	Supplying and installation of moisture resistant/fire resistant 6 mm thick Heavy duty fiber cement board (High pressure steam cured) conforming to IS 14862:2000 of category III type B as per standard sizes fixed with self-drilling /taping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm.				
	Details of cost for 10.00 Sqm				
	MATERIAL				
238	6 mm thick heavy duty fiber cement board	sqm	11	470.00	5170.00
	10.00 sqm + 1.00 sqm (Add for wastage @10%)= 11.00 sqm				
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section Taping and finishing cement board joints	each	40	3.00	120.00
Sub	Rate as per Item No.Sub A/R- 1 of SH:Light				
A/R- 1	Gauge Steel Framed Structure (LGSFS)	sqm	10	84.10	840.98
	LABOUR				
	For cutting and fixing of cement and gypsum board 18.00 sqm				
0015	Carpenter 2nd class	day	1.11	374.50	415.70
0017	Beldar	day	3.33	320.83	1068.36
	TOTAL				7615.04 W
	Add 1 % Water charges on "W"				76.15
	TOTAL				7691.19 X
	Add GST (multiplying factor 0.1405) on "X"				1080.61
	TOTAL				8771.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				1315.77
	Total				10087.58 Z
	Add Cess @ 1% on "Z"				100.88
	Cost of 10 sqm				10188.45
	Cost of 1 sqm				1018.85
	Say				1018.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.46	Providing and fixing in position, 200 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh duly finished with shotcrete materials on outer faces. The fabric mesh shall be made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of the wall, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree) . The EPS core shall consist of 100 mm thick EPS of density not less than 20 kg/ per cum. Both the outer faces of the panel shall be finished by applying the layer of 50 mm thick cement mortar 1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} with the help of shotcreting/guniting equipment etc at a pressure not less than 1 bar (100Kn/m2) and both surfaces finished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge.				
	Details of cost for 1.20x3.00m= 3.60 sqm				
	MATERIAL				
8013	Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh,with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row by welding. 3.60 sqm + 0.18 sqm (Add for wastage @5%) Total = 3.78 sqm	sqm	3.78	1650.00	6237.00
9999	Add for L-shape,U-shape & straight lap mesh Cement mortar 1:3 (1cement:3 coarse sand)	L.S.	208	2.00	416.00
	2x1.20x3.00x0.05= 0.36 cum				
3.8	Rate as per Item No.3.8 of SH: Mortar	cum	0.36	4469.50	1609.02
	10 mm TMT bars (2 nos.75 mm long) Aluminium C-channels (100mmx150mm long)				
9999	For fixing wall with foundation	L.S.	312.15	2.00	624.30
	LABOUR				
9999	For carrying out shotcreting, shoring, leveling, and finishing the surface with trowel.	L.S.	707.5	2.00	1415.00
	TOTAL				10301.32 W
	Add 1 % Water charges on "W"				103.01
	TOTAL				10404.33 X
	Add GST (multiplying factor 0.1405) on "X"				1461.81
	TOTAL				11866.14 Y
	Add 15 % Contractor's profit and overheads on "Y"				1779.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				13646.06 Z
	Add Cess @ 1% on "Z"				136.46
	Cost of 3.60 sqm				13782.52
	Cost of 1 sqm				3828.48
	Say				3828.50
26.47	Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of panel, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree). The EPS core shall consist of 100 mm thick EPS of density not less than 20kg/ per cum. The bottom side of the panel shall be finished by applying a layer of 60-65 mm thick cement mortar 1: 3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} with the help of shotcreting equipment etc at a pressure of not less than 1 bar (100Kn/m2) and surface finished with trowel. The top face of the panel shall be provided and finished by applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Fixing operations of roof/floor panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge.				
	Details of cost for 1.20x3.00m= 3.60 sqm				
	MATERIAL				
8013	Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh,with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row by welding. sqm 3.78 3.60 sqm + 0.18 sqm (Add for wastage @5%)Total = 3.78 sqm Cement mortar 1:3 (1cement:3 coarse sand) 60mm thick on the bottom of roof slab =1x1.2x3.00x0.060= 0.216cum	sqm	3.78	1650.00	6237.00
3.8	Rate as per Item No.3.8 of SH: Mortar Cement concrete 1:1.5:3 70mm thick on the top of roof slab =1x1.20x3.00x0.07= 0.252 cum	cum	0.216	4469.50	965.41
5.3	Rate as per Item No.5.3 of SH: Reinforced Cement Concrete	cum	0.252	7835.75	1974.61 A
9999	Add for L-shape, U-shape & straight	L.S.	202.32	2.00	404.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	lap mesh				
	LABOUR				
9999	For providing concreting, shotcreting, shoring, leveling, plastering and finishing the surface with trowel.	L.S.	832.36	2.00	1664.72
	TOTAL				11246.38 W
	Add 1 % Water charges on "W-A"		9271.77		92.72
	TOTAL				11339.10 X
	Add GST (multiplying factor 0.1405) on "X-A"		9364.49		1315.71
	TOTAL				12654.81 Y
	Add 15 % Contractor's profit and overheads on "Y-A"		10680.20		1602.03
	Total				14256.84 Z
	Add Cess @ 1% on "Z-A"		12282.23		122.82
	Cost of 3.60 sqm				14379.66
	Cost of 1 sqm				3994.35
	Say				3994.35

26.48 Providing and fixing aluminium formwork for monolithic construction RCC members using grade 5052 aluminium for panel sheets of minimum 4 mm thickness and grade 6061 (Type-6) aluminium for extruded sections. The form work includes of beam components i.e. beam side panel, prop head for soffit beam, beams soffit pannels, beam soffit bulk head and deck components i.e. dec panel, deck prop, prop length, deck mid, soffit length, deck beam bar and wall component i.e. wall panel, rocker, kiker & internal soffit corner, external soffit corner, external corner, internal corner etc. The pannel are held in position by a simple pin and wedge sytem that passes through holes in the out side rib of each pannel. The tolerance of finished panels to be (-1 mm). Pins and wedges to be made of high grade mild steel. All complete as per direction of Engineer-in-charge.

Details of cost for 75.998 sqm say 76 sqm

2.7mx2.7mx1.00m

Contact area = 10.8 sqm.

MATERIAL

Assuming shuttering material will become unserviceable after use of 100 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 35% of cost I Aluminium Formwork System

1 Wall (W) Panels

a.) 2050X600mm, Qty. = 2 Nos = 2.460 sqm

b.) 2050X300mm, Qty. = 2 Nos = 1.230 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	c.) 2050X250mm, Qty. = 2 Nos = 1.025 sqm				
	d.) 300X1150mm, Qty. = 1 Nos = 0.345 sqm				
	Total = 5.06 sqm				
	2 WRB Panels				
	a.) 2325x350mm, Qty. = 1 Nos = 0.814 sqm				
	b.) 2325X250mm, Qty. = 2 Nos = 1.163 sqm				
	c.) 2100X600 mm,Qty. = 24 Nos = 30.240 sqm				
	d.) 2100X450mm, Qty. = 4 Nos = 3.780 sqm				
	e.) 2100X300mm, Qty. = 2 Nos = 1.260 sqm				
	f.) 2100X250 mm,Qty. = 2 Nos = 1.050 sqm				
	g.) 350X1150mm, Qty. = 1 Nos = 0.403 sqm				
	Total = 38.71 sqm				
	3 Panels				
	a.) 825X600mm, Qty. = 2 Nos = 0.990 sqm				
	b.) 825X300 mm,Qty. = 2 Nos = 0.495 sqm				
	c.) 825X250 mm,Qty. =2 Nos = 0.413 sqm				
	d.) 650X600 mm,Qty. = 24 Nos = 9.360 sqm				
	e.) 650X450 mm,Qty. = 4 Nos = 1.170 sqm				
	f.) 650X300 mm,Qty. = 2 Nos = 0.390 sqm				
	g.) 650X250 mm,Qty. = 2 Nos = 0.325 sqm				
	Total = 13.143 sqm				
	4 Deck Panels				
	a.) 1100x450mm, Qty. = 14 Nos = 6.930 sqm				
	b.) 1100x250mm,Qty. =2 Nos = 0.550 sqm				
	c.) 750x450mm,Qty. = 1 Nos = 0.338 sqm				
	Total = 7.818 sqm				
	5 Kicker Panels				
	a.) 125 x 2300mm, Qty. = 2 Nos = 0.576 sqm				
	b.) 125 x 1150 mm, Qty. = 2 Nos = 0.288 sqm				
	Total = 0.864 sqm				
	6 Door Closing Panel (DCRB)				
	a.) 1975 x 150mm, Qty. = 2 Nos = 0.593 sqm				
	b.) 2325x150 mm, Qty. = 1 Nos = 0.349 sqm				
	Total = 0.942 sqm				
	G. Total = 66.537 sqm				
	Qty taken for cost of using once				
	= 66.537x0.75/100 = 0.499 sqm				
8031	Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/WRB panel/Kicker Panels/door closing panels	sqm	0.499	8500.00	4241.50
	7 Internal Corner				
	a.) 2350 mm Qty. = 3 Nos = 1.586 sqm				
	b.) 2250 mm Qty. = 4 Nos.= 2.025 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	c.) ICI 400x400 mm, Qty. = 10 Nos = 1.800 sqm Total = 5.411 sqm 8 Column Corners a.) 2100 mm Qty. = 6 Nos = 2.52 sqm b.) 650 mm Qty. = 6 Nos = 0.78 sqm c.) 300 mm Qty. = 4 Nos = 0.24 sqm Total = 3.54 sqm G. Total = 8.951 sqm Qty taken for cost of using once = $8.951 \times 0.75 / 100 = 0.0671325 = 0.0672$				
8032	Aluminium sheets Grade 5052, 4 mm thick for Internal Corner/Column Corners/ 9 Mid Soldier a.) 1000 mm Qty. = 2 Nos = 0.2 sqm 10 End soldier a.) 800 mm Qty. = 2 Nos = 0.16 sqm b.) 750 mm Qty. = 2 Nos = 0.15 sqm Total = 0.31 sqm G.Total = 0.51 sqm Qty taken for cost of using once = $0.51 \times 0.75 / 100 = 0.003825 = 0.0038$	sqm	0.0672	11500.00	772.80
8033	Aluminium sheets Grade 5052, 4 mm thick for Mid Soldier/End soldier II Accessories Assuming 35% as salvage value, 10% maintenance cost and 100 times use before becoming unserviceable Qty taken for cost of using once = $Qty \times 0.75 / 100$	sqm	0.0038	32000.00	121.60
8034	External Corner 2050 mm = $2 \times 0.75 / 100 = 0.015$	each	0.015	1400.00	21.00
8035	External Corner 825 mm = $2 \times 0.75 / 100 = 0.015$	each	0.015	590.00	8.85
8036	Soldier Tie 370 mm = $8 \times 0.75 / 100 = 0.06$	each	0.06	290.00	17.40
8037	Adjustable Prop - 2.00 x 2.00m = $8 \times 0.75 / 100 = 0.06$	each	0.06	1080.00	64.80
8038	Pin-50 = $936 \times 0.75 / 100 = 7.02$	each	7.02	15.00	105.30
8039	Pin-127 = $8 \times 0.75 / 100 = 0.06$	each	0.06	55.00	3.30
8040	Wedge = $944 \times 0.75 / 100 = 7.08$	each	7.08	14.00	99.12
8041	Wall Tie - 150 (355)mm = $168 \times 0.75 / 100 = 1.26$	each	1.26	45.00	56.70
8042	Polythene Sleeve 90 x 150mm = $168 \times 0.75 / 100 = 1.26$	each	1.26	3.00	3.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8043	Polythene Roll - 150mm Long. = $168 \times 0.75/100 = 1.26$	each	1.26	6.00	7.56
8044	Vertical Soldier -1100mm = $4 \times 0.75/100 = 0.03$	each	0.03	365.00	10.95
8045	Wall Attached Bracket 600x1000mm = $8 \times 0.75/100 = 0.06$	each	0.06	985.00	59.10
8046	Alignment Pipe - 3.00 Mtr. = $2 \times 0.75/100 = 0.015$	each	0.015	995.00	14.93
8047	Alignment Bracket = $6 \times 0.75/100 = 0.045$	each	0.045	475.00	21.38
8048	Tie Rod for Bracket - 500mm = $12 \times 0.75/100 = 0.09$	each	0.09	115.00	10.35
8049	Anchor Wing Nut Ø100 mm = $17 \times 0.75/100 = 0.1275$	each	0.1275	64.00	8.16
8050	Debit Pin - 250mm = $5 \times 0.75/100 = 0.0375$	each	0.0375	60.00	2.25
8051	PVC Pipe Ø20mm - 150mm long = $12 \times 0.75/100 = 0.09$	each	0.09	5.00	0.45
8052	PVC Cone = $10 \times 0.75/100 = 0.075$	each	0.075	5.00	0.38
8053	Bolt+Nut - 16 x 80 mm = $10 \times 0.75/100 = 0.075$	each	0.075	30.00	2.25
8054	Flat Washer Ø16, 3mm thik = $16 \times 0.75/100 = 0.12$	each	0.12	5.00	0.60
8055	Bolt+Nut - 16 x 30 mm = $50 \times 0.75/100 = 0.375$	each	0.375	18.00	6.75
8056	Door Spacer 45x45x5 -1135mm Long = $2 \times 0.75/100 = 0.015$	each	0.015	360.00	5.40
8057	Door Spacer 45x45x5 - 985mm long = $2 \times 0.75/100 = 0.015$ LABOUR	each	0.015	315.00	4.73
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0020	Assistant Fitter or 2nd class Fitter	day	2.00	374.50	749.00
0017	Beldar	day	3.00	320.83	962.49
9999	Shuttering oil	L.S.	220.00	2.00	440.00
9999	Cleaning of shuttering	L.S.	440.00	2.00	880.00
TOTAL					9654.86 W
Add 1 % Water charges on "W"					96.55
TOTAL					9751.41 X
Add GST (multiplying factor 0.1405) on "X"					1370.07
TOTAL					11121.48 Y
Add 15 % Contractor's profit and overheads on "Y"					1668.22
Total					12789.70 Z
Add Cess @ 1% on "Z"					127.90
Cost for 76 sqm.					12917.60
Cost per sqm.					169.97
Say					169.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.49	Providing and fixing in position factory made EPS cement sandwich wall/roof/floor light weight solid core panels made of core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum) adhesive, cement, sand, flyash and other bonding material in mortar state processed to form in a preset mould. The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each. Panel shall be laid on 6mm thick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall be preferably fixed into 'C' channel made of 1.2mm thick MS plate screwed/fastened to the slab/column/beam etc. The panel shall fixed vertically with tongue and groove joint and horizontally locked with steel bar between each other and floors and filled with cement mortar and adhesive. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge (Cost of all the material is included except "C channel" which will be paid seperately).				
26.49.1	Non load bearing panels 50mm thick of required size				
	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm)				
	MATERIAL				
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm				
7996	Factory made EPS light weight composite sandwiched wall/roof panel (50mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	10.50	735.25	7720.13
9999	Sundries, wooden wedge for levelling, cement mortar, Chemical adhesive & dowel bar (6mm dia)	L.S.	37.00	2.00	74.00
	LABOUR				
	For fixing, aligning, locking the panels				
0023	Mason Grade -1	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				8352.96 W
	Add 1 % Water charges on "W"				83.53
	TOTAL				8436.48 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				1185.33
	TOTAL				9621.81 Y
	Add 15 % Contractor's profit and overheads on "Y"				1443.27
	Total				11065.08 Z
	Add Cess @ 1% on "Z"				110.65
	Cost of 10 sqm				11175.73
	Cost of 1sqm				1117.57
	Say				1117.55
26.49.2	Non load bearing panels 60mm thick of required size				
	Details of cost 10sqm (6.95Nos x				
	0.6m x2.40m = 10sqm)				
	MATERIAL				
	Panel area = 10.00sqm, Add wastage				
	@ 5% = 0.50sqm, Total area =				
	10.50 sqm				
7997	Factory made EPS light weight composite sandwiched wall/roof panel (60mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	10.50	845.00	8872.50
9999	Sundries, wooden wedge for levelling, cement mortar, Chemical adhesive & dowel bar (6mm dia)	L.S.	37.00	2.00	74.00
	LABOUR				
	For fixing, aligning, locking the panels				
0023	Mason Grade -1	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				9505.33 W
	Add 1 % Water charges on "W"				95.05
	TOTAL				9600.38 X
	Add GST (multiplying factor 0.1405) on "X"				1348.85
	TOTAL				10949.24 Y
	Add 15 % Contractor's profit and overheads on "Y"				1642.39
	Total				12591.62 Z
	Add Cess @ 1% on "Z"				125.92
	Cost of 10 sqm				12717.54
	Cost of 1sqm				1271.75
	Say				1271.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.49.3	Non load bearing panels 75mm thick of required size				
	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm)				
	MATERIAL				
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm				
7998	Factory made EPS light weight composite sandwitched wall/roof panel (75mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm	sqm	10.50	1047.46	10998.33
9999	Sundries, wooden wedge for levelling, cement mortar, Chemical adhesive & dowel bar (6mm dia)	L.S.	37.00	2.00	74.00
	LABOUR				
	For fixing, aligning, locking the panels				
0023	Mason Grade -1	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				11631.16 W
	Add 1 % Water charges on "W"				116.31
	TOTAL				11747.47 X
	Add GST (multiplying factor 0.1405) on "X"				1650.52
	TOTAL				13397.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				2009.70
	Total				15407.69 Z
	Add Cess @ 1% on "Z"				154.08
	Cost of 10 sqm				15561.77
	Cost of 1sqm				1556.18
	Say				1556.20
26.49.4	Non load bearing panels 90mm thick of required size				
	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm)				
	MATERIAL				
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7999	Factory made EPS light weight composite sandwiched wall/roof panel (90mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of	sqm	10.50	1268.00	13314.00
9977	Sundries, wooden wedge for levelling, cement mortar, Chemical adhesive & dowel bar (6mm dia) LABOUR For fixing, aligning, locking the panels	L.S.	37.00	0002.00	74.00
0023	Mason Grade -1	day	0.50	0476.00	238.00
0017	Beldar	day	1.00	0320.83	320.83
	TOTAL				13946.83 W
	Add 1 % Water charges on "W"				139.47
	TOTAL				14086.30 X
	Add GST (multiplying factor 0.1405) on "X"				1979.12
	TOTAL				16065.42 Y
	Add 15 % Contractor's profit and overheads on "Y"				2409.81
	Total				18475.24 Z
	Add Cess @ 1% on "Z"				184.75
	Cost of 10 sqm				18659.99
	Cost of 1sqm				1866.00
	Say				1866.00

26.49.5 Non load bearing panels 100mm thick of required size

	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm)
	MATERIAL
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm
8000	Factory made EPS light weight composite sandwiched wall/roof panel (100mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	board confirming to EN 14306:2009 of 5mm thick each	sqm	10.50	1512.37	15879.89
9999	Sundries, wooden wedge for levelling, cement mortar, Chemical adhesive & dowel bar (6mm dia)	L.S.	37.00	2.00	74.00
	LABOUR				
	For fixing, aligning, locking the panels				
0023	Mason Grade -1	day	0.50	476.00	238.00
0017	Beldar	day	1.00	320.83	320.83
	TOTAL				16512.72 W
	Add 1 % Water charges on "W"				165.13
	TOTAL				16677.84 X
	Add GST (multiplying factor 0.1405) on "X"				2343.24
	TOTAL				19021.08 Y
	Add 15 % Contractor's profit and overheads on "Y"				2853.16
	Total				21874.24 Z
	Add Cess @ 1% on "Z"				218.74
	Cost of 10 sqm				22092.98
	Cost of 1sqm				2209.30
	Say				2209.30
26.50	Providing and fixing in position factory made non asbestos fibre reinforced aerated cement sandwich wall/roof/floor light weight solid core panels made of light weight cement concrete core composed of OPC cement, pulverized flyash, quick lime, cotton pulp & Gypsum in mortar state mixed with aeration agent in a preset mould. The outer face on both sides of the panels will be non asbestos fibre cement board confirming to IS 14862:2000. These solid wall panels are installed using Galvanized iron steel tracks/C channel of 1mm thick of required sizes as recommended by manufacturer's and fixed to floor and RCC soffit in plumb to each other with steel screw/fasteners. The panel shall be fixed vertically with tongue & groove joint with cement based polymer modified jointing compound. The exposed surface finished with fibre mesh/glass fibre tape with polymer based jointing compound having superior flexibility. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge (Cost of all the material is included except "tracks/C channel" which will be paid separately).				
26.50.1	Non load bearing panels 50mm thick of required size (minimum 4mm thick fibre cement board)				
	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm)				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm				
0244	Factory made light weight composite non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (50mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 4mm thick) confirming to IS 14862:2000	sqm	10.50	634.00	6657.00
9999	Sundries, cement based polymer modified jointing compound, polymer based jointing compound having superior flexibility, fibre glass tape etc.	L.S.	500.00	2.00	1000.00
	LABOUR				
	For fixing, aligning, locking the panels, glass fibre tape/fibre mesh with a jointing compound.				
0023	Mason Grade -1	day	1.00	476.00	476.00
0017	Beldar	day	2.00	320.83	641.66
0031	Painter	day	0.50	374.50	187.25
	TOTAL				8961.91 W
	Add 1 % Water charges on "W"				89.62
	TOTAL				9051.53 X
	Add GST (multiplying factor 0.1405) on "X"				1271.74
	TOTAL				10323.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				1548.49
	Total				11871.76 Z
	Add Cess @ 1% on "Z"				118.72
	Cost of 10 sqm				11990.48
	Cost of 1sqm				1199.05
	Say				1199.05
26.50.2	Non load bearing panels 75mm thick of required size (minimum 5mm thick fibre cement board)				
	Details of cost 10sqm (6.95Nos x 0.6m x2.40m = 10sqm) MATERIAL				
	Panel area = 10.00sqm, Add wastage @ 5% = 0.50sqm, Total area = 10.50 sqm				
0245	Factory made light weight non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (75mm thick). The outer face on both sides of the panels will be non asbestos				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	fibre cement board (minimum 5mm thick) confirming to IS 14862:2000 Sundries, cement based polymer modified jointing compound, polymer based jointing compound having superior flexibility, fibre glass tape etc. LABOUR For fixing, aligning, locking the panels, glass fibre tape/fibre mesh with a jointing compound.	sqm	10.50	789.00	8284.50
		L.S.	500.00	2.00	1000.00
0023	Mason Grade -1	day	1.00	476.00	476.00
0017	Beldar	day	2.00	320.83	641.66
0031	Painter	day	0.50	374.50	187.25
	TOTAL				10589.41 W
	Add 1 % Water charges on "W"				105.89
	TOTAL				10695.30 X
	Add GST (multiplying factor 0.1405) on "X"				1502.69
	TOTAL				12197.99 Y
	Add 15 % Contractor's profit and overheads on "Y"				1829.70
	Total				14027.69 Z
	Add Cess @ 1% on "Z"				140.28
	Cost of 10 sqm				14167.97
	Cost of 1sqm				1416.80
	Say				1416.80
26.51	Supplying of standard quality GFRG panel of 124 mm thickness with modular cavities purchased from GFRG panel manufacturing plant in the country, cut to required wall sizes and floor/ roof slab sizes in correct length and height, including cutting of door, window and ventilator opening as per the cutting drawing prepared by architects / design engineers for the construction of GFRG building and loaded in stillages for transportation to the construction site. Cost of panel includes security deposits, hire charges of stillages & jaws, cost of transportation in trucks/ lorries without any damages upto 300kms including all leads and lifts from GFRG manufacturing plant to construction site and unloading at site using suitable fork lift/ crane. (Payment shall be made on the basis of area of one side of panel without reduction of opening of door/ window / ventilator). For transportation above 300kms, additional charges to be paid.				
	Detail of cost for 1sqm.				
	MATERIALS				
	Panel area = 1.00sqm,				
	Add wastage @ 5% = 0.050sqm,				
	Total area = 1.05 sqm				
7368	GFRG panel of 124mm thick	sqm	1.05	847.46	889.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	"Transportation of panel in suitable truck"(Rs 0.15/sqm/km) upto 300 Km"	L.S.	26.00	2.00	52.00
9999	Hire Charges for Stillages/Lifting jaw, unloading of panel at site using for lift or crane, Hire Charges for Stillages/ Lifting jaw	L.S.	17.00	2.00	34.00
	TOTAL				975.83 W
	Add 1 % Water charges on "W"				9.76
	TOTAL				985.59 X
	Add GST (multiplying factor 0.1405) on "X"				138.48
	TOTAL				1124.07 Y
	Add 15 % Contractor's profit and overheads on "Y"				168.61
	Total				1292.68 Z
	Add Cess @ 1% on "Z"				12.93
	Cost of 1 sqm				1305.60
	Say				1305.60

26.52 Erection of GFRG Panels in walls in all floors using suitable crane as per instructions of Engineer-in-Charge, as per cutting drawings and structural drawings, in perfect line and plumb, above RCC plinth beam/GFRG panel below and provide necessary lateral/ slanting support to keep the wall panel in safe position, providing & tying of Reinforcement as per structural drawings and applying a coat of water repellant coating Zycosil/equivalent or equivalent product (1 Zycosil/equivalent compound :10 water) to saturation level over RCC plinth beam to provide water proofing treatment to joint between wall panel & plinth beam as per the guide lines / instruction by the engineer in charge. (Cost of reinforcement, water proofing of walls and plinth beam/GFRG panel below joints and installation of door/ window frames before filling of concrete shall be paid separately). The rate quoted shall include making provision for laying of lintels, beams, sunshades, staircase beams, lofts, plumbing work, electrical conduits and any structural insertion etc., as per the drawing and direction of the engineer in charge. The payment shall be made based on the actual exposed area (one side only) of the panel. The work shall be carried out as per the Special Conditions For Glass Fibre Reinforced Gypsum (GFRG) Structures mentioned in NIT.

Note:(i) When cutting panel, "A" side is to be for outside or external surface of respective external wall and B side is to be for internal surface of wall
(ii) Erection of panel is to be with reference to both building plan & cutting drawing by following notational mark indicated in the cutting drawing as well as notional mark written on each panel cut as per cutting drawing

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Detail of cost for 36sqm. (4 walls of 3mx3m = 36 sqm)					
LABOUR					
Skilled trained crew erection team 4 persons for 4 hour					
0023	Mason (Brick layer) 1st class For 2 Lintels works, 4 skilled men for 2 hrs	day	2.00	0476.00	1476.00
0023	Mason (Brick layer) 1st class "Web cutting for horizontal tie beam, 2 skilled men" for 4 hrs"	day	1.00	0476.00	738.00
0023	Mason (Brick layer) 1st class "Placing horizontal tie beam reinforcement 4 men for" 2 hrs"	day	1.00	0476.00	738.00
0023	Mason (Brick layer) 1st class Cost for technical supervisor for 4 hrs (Technical supervisor = Skilled labour)	day	1.00	0476.00	476.00
0019	Fitter (Grade 1)	day	0.50	476.00	238.00
037	Mobile crane	day	0.375	7500.00	2812.50
9999	Hire charge for lateral support & Lifting jaws	L.S.	150.00	2.00	300.00
TOTAL					6778.50 W
Add 1 % Water charges on "W"					67.79
TOTAL					6846.29 X
Add GST (multiplying factor 0.1405) on "X"					961.90
TOTAL					7808.19 Y
Add 15 % Contractor's profit and overheads on "Y"					1171.23
Total					8979.42 Z
Add Cess @ 1% on "Z"					89.79
Cost of 36 sqm					9069.21
Cost of 1 sqm					251.92
Say					251.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.53	Filling of empty cavities (as shown in the structural design drawing) with quarry dust mixed with 5% cement (by volume). After initial infill of 50 mm thick with M25 concrete at base/bottom of cavities to seal off, infill wall panel cavities in 3 stages as detailed below, (i) 1st pour / infill to be limited to 0.3 to 0.50 m height from bottom of the panel. (ii) 2nd Pour/ infill: infilling shall be done only after 90 minutes interval between successive pours. The maximum height of infill shall be restricted to 1.5m height or up to the top level of door / window. (iii) 3rd pour/infill: After an interval of 90 minutes of second pour, infill or pour the balance height up to the bottom of embedded RCC tie beam. Pour enough water just required to dampen the dry mix enough to form cake form after each stage. (cost of laying M25 concrete shall be paid separately) (If any rain falls in between any stages of concrete pour, make sure to cover the panel top to prevent ingress of water or water falling into the cavities. In case of water collection over the concrete inside the panel, drill 10mm hole in GFRG panel immediately above concrete filled level to drain out water before pour/in-fill of balance concreting)				
1159	Detail of cost for filling one panel size 9 sqm (3mx3m Wall) MATERIAL				
	Stone dust/Quarry dust filling in cavities of size 230x94 mm	cum	0.85	1100.00	935.00
0367	OPC Cement @ 5% volume of quarry dust	tonne	0.06091	4940.00	300.90
	Tools and plants hire charges				
002	Mixer hire charges	day	0.125	800.00	100.00
	LABOUR				
0024	Mason (brick layer) 2nd class	day	0.125	374.50	46.81
0017	Beldar	day	0.125	320.83	40.10
	TOTAL				1422.81 W
	Add 1 % Water charges on "W"				14.23
	TOTAL				1437.04 X
	Add GST (multiplying factor 0.1405) on "X"				201.90
	TOTAL				1638.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				245.84
	Total				1884.79 Z
	Add Cess @ 1% on "Z"				18.85
	Cost of 0.85 cum				1903.63
	Cost of 1 cum				2239.57
	Say				2239.55

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.54	Laying of GFRG panel as roof / floor slab panel and staircase panel using suitable crane as per instructions of Engineer-in-Charge, including providing support system with 25mm x 300mm-400 mm wide plywood, as runner with proper prop below proposed micro beams including (a) Cutting of top flange of panel to 180 mm wide (leaving 25mm projection on either side) to provide RCC embedded micro beam as per cutting drawings and structural drawings. (b) Reinforcement for micro beams and tie beams to be provided in position with proper anchorage as per structural drawings. (c) Provision for Electrical cabling, fan hooks and laying of pipes for plumbing work. (d) Concreting of Tie beam, micro beam and top of GFRG panels (50 mm thick) with M-25 cement concrete mix using coarse aggregate of size less than 20 mm including laying of 10 gauge 100x100 size weld mesh with 25 mm effective cover from the panel top.				
	Detail of cost for 9 sqm (3mx3m wall panel)				
	LABOUR				
	Providing runner & support system in place for placing panel in position with 40mm bearing on walls(4 Skilled persons for 1/2 Hrs /1/16 days)				
0023	Mason (Brick layer) 1st class	day	0.250	476.00	119.00
	Lifting panel from stack by crane and placing in position with 40 mm bearing on walls 4 skilled labour for 1 hrs				
0023	Mason (Brick layer) 1st class	day	0.50	476.00	238.00
	Cutting & removal of top flange to protruding 25mm on either sides for keying panel into RCC micro beams in position (every 3rd cavities runner/span in place beneath) and providing concealed beam reinforcement in position, side shuttering for slab for external side (with 6mm groove) also to be provided (mean while providing fan hooks, electrical cabling, piping etc by coordinate task by concerned skilled persons, 4 skilled labour for 1 hrs				
0023	Mason (Brick layer) 1st class	day	0.50	476.00	238.00
9999	Hire charges for runner and support system and side shuttering for external side of slab for 5 days	L.S.	29.00	2.00	58.00
037	Mobile crane	day	0.125	7500.00	937.50
	TOTAL				1590.50 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				15.91
	TOTAL				1606.41 X
	Add GST (multiplying factor 0.1405) on "X"				225.70
	TOTAL				1832.10 Y
	Add 15 % Contractor's profit and overheads on "Y"				274.82
	Total				2106.92 Z
	Add Cess @ 1% on "Z"				21.07
	Cost of 9 sqm				2127.99
	Cost of 1 sqm				236.44
	Say				236.45
26.55	Supplying and fixing 10 Gauge weld mesh of size 100mm x100 mm for floor/roof slab concrete screed over the micro beams as reinforcement. The weld mesh shall be fixed as per drawing.				
	Detail of cost for 9sqm (3mx3m)				
	MATERIAL				
	Mesh area = 9.00sqm, Add wastage @ 5% = 0.45sqm, Total area = 9.45 sqm				
1223	Steel weld mesh	sqm	9.45	150.00	1417.50
	Labour for filling the quarry dust				
0013	Blacksmith 2nd class	day	0.125	374.50	46.81
0017	Beldar	day	0.125	320.83	40.10
	TOTAL				1504.42 W
	Add 1 % Water charges on "W"				15.04
	TOTAL				1519.46 X
	Add GST (multiplying factor 0.1405) on "X"				213.48
	TOTAL				1732.94 Y
	Add 15 % Contractor's profit and overheads on "Y"				259.94
	Total				1992.89 Z
	Add Cess @ 1% on "Z"				19.93
	Cost of 9 sqm				2012.82
	Cost of 1 sqm				223.65
	Say				223.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.56	Application of ZMB 60/equivalent solution (100 Kg ZMB 60/equivalent, 1 litre ZMB Nano Thinner, 20 litre water & 1 Litre Zycoprime/equivalent = 122 litre/kg) over already applied coat of Zycosil/equivalent & Zycoprime/equivalent solution on the top of all the RCC plinth beams by brush/spray coat before erection of GFRG over RCC plinth beams in GF. In the case of upper floors 150 mm wide on floor slab for all the external walls, bath/toilet/wet areas (3 hrs drying time) before erection of wall panel on upper floors including erection of parapet wall.				
	Detail of cost for 122sqm				
	MATERIAL				
8516	ZMB 60 / equivalent	kg	100.00	105.00	10500.00
8517	ZMB Thinner	litre	1.00	205.00	205.00
8518	Zycoprime / equivalent	litre	1.00	210.00	210.00
9999	Water, brush, technical supervision etc.	L.S.	78.00	2.00	156.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	20.333	476.00	9678.51
	TOTAL				20749.51 W
	Add 1 % Water charges on "W"				207.50
	TOTAL				20957.00 X
	Add GST (multiplying factor 0.1405) on "X"				2944.46
	TOTAL				23901.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				3585.22
	Total				27486.68 Z
	Add Cess @ 1% on "Z"				274.87
	Cost of 122 sqm				27761.55
	Cost of 1 sqm				227.55
	Say				227.55
26.57	After erection of GFRG wall panels, seal all GFRG wall joints with paper tape temporarily. Water proofing treatment of vertical joints with Zycosil/equivalent water proofing Solution (1 litre of Zycosil / equivalent & 20 litres of water stirred first & 2 litres of Zycoprime / equivalent added and stirred (total 23 litres)) with 50 ml syringe till the gap and in filled concrete is completely saturated. After removing the paper seal, seal off the vertical joints with water proofing material "Grout RW/ equivalent " (Sealing cost excluded.)				
	Detail of cost for 3 metre				
	MATERIAL				
8519	Zycosil /equivalent	litre	0.02609	1800.00	46.96
8518	Zycoprime / equivalent	litre	0.05217	210.00	10.96
9999	water, syringe, etc.	L.S.	16.00	2.00	32.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	0.125	476.00	59.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				149.42 W
	Add 1 % Water charges on "W"				1.49
	TOTAL				150.91 X
	Add GST (multiplying factor 0.1405) on "X"				21.20
	TOTAL				172.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				25.82
	Total				197.93 Z
	Add Cess @ 1% on "Z"				1.98
	Cost of 3 metre				199.91
	Cost of 1 metre				66.64
	Say				66.65
26.58	Filling of joints between RCC plinth beam / floor slab and wall panel of external walls, toilet / bath room / wet areas walls on all floor and parapet wall over roof slab, stair case head room at the time of erection of GFRG panels with Grout RW/ equivalent sealant compound after the erection of panel before the infill of concrete in panel cavities and fine finish. This applies for all horizontal and vertical joints between GFRG wall and slab panels.				
	Detail of cost for 48 metre				
	MATERIAL				
8520	Elastobar / equivalent	kg	1.00	300.00	300.00
367	OPC Cement	tonne	0.0015	4940.00	7.41
9999	100 mesh silica, water, technical supervision, etc.	L.S.	3.00	2.00	6.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	1.500	476.00	714.00
	TOTAL				1027.41 W
	Add 1 % Water charges on "W"				10.27
	TOTAL				1037.68 X
	Add GST (multiplying factor 0.1405) on "X"				145.79
	TOTAL				1183.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				177.52
	Total				1361.00 Z
	Add Cess @ 1% on "Z"				13.61
	Cost of 48 metre				1374.61
	Cost of 1 metre				28.64
	Say				28.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.59	Water proofing treatment of Vertical joints (of external side and internal side) between door frame, window & ventilator frames (on all four sides) of outer wall over the Zycosil/equivalent & Zycoprime / equivalent solution already applied (before the installation of door / window / ventilator frames in position) and fine finish with Grout RW/equivalent.				
	Detail of cost for 40 sqm				
	MATERIAL				
8519	Zycosil / equivalent	litre	1.00	1800.00	1800.00
8518	Zycoprime / equivalent	litre	2.00	210.00	420.00
9999	Water, technical supervision, etc.	L.S.	6.00	2.00	12.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	0.28571	476.00	136.00
	Cost of 40 sqm				2368.00
	Cost of 1 metre (10mm thick)				0.59 A1
	Detail of cost for 48 metre				
	MATERIAL				
8520	Elastobar / equivalent	kg	1.00	300.00	300.00
0367	OPC Cement	tonne	0.0015	4940.00	7.41
9999	100 mesh silica, water, technical supervision, etc.	L.S.	3.00	2.00	6.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	1.50	476.00	714.00
	Cost of 48 metre				1027.41
	Cost of 1 metre				21.40 A2
	TOTAL (A1+A2)				22.00 W
	Add 1 % Water charges on "W"				0.22
	TOTAL				22.22 X
	Add GST (multiplying factor 0.1405) on "X"				3.12
	TOTAL				25.34 Y
	Add 15 % Contractor's profit and overheads on "Y"				3.80
	Total				29.14 Z
	Add Cess @ 1% on "Z"				0.29
	Cost of 1 metre				29.43
	Say				29.45
26.60	Water proofing treatment of RCC sunshade with Zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 23 litres)) till it meets the saturation level and testing as per RILEM or by water drops test in which water drops do not absorb but drops remain or rolls.				
	Detail of cost for 40 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8519	Zycosil / equivalent	litre	1.00	1800.00	1800.00
8518	Zycoprime /equivalent	litre	2.00	210.00	420.00
9999	Water, technical supervision, etc.	L.S.	7.00	2.00	14.00
	LABOUR				
0031	Painter	day	2.50	374.50	936.25
	TOTAL				3170.25 W
	Add 1 % Water charges on "W"				31.70
	TOTAL				3201.95 X
	Add GST (multiplying factor 0.1405) on "X"				449.87
	TOTAL				3651.83 Y
	Add 15 % Contractor's profit and overheads on "Y"				547.77
	Total				4199.60 Z
	Add Cess @ 1% on "Z"				42.00
	Cost of 40 sqm				4241.60
	Cost of 1 sqm				106.04
	Say				106.05
26.61	In-filling / sealing of joint between RCC lintel cum sunshade and wall (on external side) in all floors by pushing in Grout RW/equivalent in paste form and coving 20 mm x 20 mm after applying a coat of Zycosil / equivalent & zycoprime/equivalent solution before cement plastering of top, bottom and sides of RCC sunshade.				
	Detail of cost for 40 sqm				
	MATERIAL				
8519	Zycosil / equivalent	litre	1.00	1800.00	1800.00
8518	Zycoprime / equivalent	litre	2.00	210.00	420.00
9999	Water, technical supervision, etc.	L.S.	6.00	2.00	12.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	0.28571	476.00	136.00
	Cost of 40 sqm				2368.00
	Cost of 1 metre (10mm thick)				0.59 A1
	Detail of cost for 48 metre				
	MATERIAL				
8520	Elastobar / equivalent	kg	1.00	300.00	300.00
0367	OPC Cement	tonne	0.0015	4940.00	7.41
9999	100 mesh silica, water, technical supervision, etc.	L.S.	3.00	2.00	6.00
	LABOUR				
0023	Mason (Brick layer) 1st class	day	1.50	476.00	714.00
	Cost of 48 metre				1420.41
	Cost of 1 metre				29.59 A2
	TOTAL (A1+A2)				30.18 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				0.30
	TOTAL				30.49 X
	Add GST (multiplying factor 0.1405) on "X"				4.28
	TOTAL				34.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				5.22
	Total				39.98 Z
	Add Cess @ 1% on "Z"				0.40
	Cost of 1 metre				40.38
	Say				40.40
26.62	Designing, Providing, installing and fixing factory finished customised design pregalvanized high tensile steel joists manufactured from G350 Z275 confirming to IS:277-1992, minimum coating of galvanizing 275 gm / sqm, minimum yield stress 35 MPa & minimum tensile strength of 380 MPa placed 1.23 metre apart to support the load of slab etc as per the design & directions of Engineer-in-Charge.				
	Detail of cost for 212.816 kgs				
	MATERIAL				
	Covered area = 5.57x4.2m = 23.394 sqm				
	(a) 250 series Joist (G 350) - 3mm thick				
	- Galvanised = 4 Nos x4.18 metre length				
	= 16.72 metre @ 10.59 kg/metre =				
	177.06 kg				
	(b) Joist Shoe plate (E 250) - 12 mm thick MS				
	Plate (Galvanised with 55 microns)				
	= 2 Nos in each joist x 4 No. joist = 8 No's				
	@ 2.4kg/each = 19.2kg				
	(c) Bolts (M16 - Gr 8.8s), (Galvanised)				
	(16 o X 40 bolts With washer & Nuts)=				
	6No's in each joist x 4 No. joists=24 Nos				
	24 No's@0.135kg/each = 3.24 kg				
	(d) Hanging Angle at corners to support				
	lock bars L 75x40x1.6 (Galvanised) =				
	2x4.18 metre =8.36 metre @ 1.60kg/				
	metre = 13.376 kg				
	Total weight = 177.06+19.2+3.24+				
	13.376 = 212.816 kgs				
1012	Pregalvanized high tensile steel	kg	212.816	90.00	19153.44
	LABOUR (Reference item no 10.1)				
0019	Fitter (grade 1)	day	1.064	476.00	506.46
0013	Blacksmith 2nd class	day	1.596	374.50	597.70
0017	Beldar	day	2.128	320.83	682.73
	Total				20940.33 W
	Add 1 % Water charges on "W"				209.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				21149.74 X
	Add GST (multiplying factor 0.1405) on "X"				2971.54
	TOTAL				24121.27 Y
	Add 15 % Contractor's profit and overheads on "Y"				3618.19
	Total				27739.46 Z
	Add Cess @ 1% on "Z"				277.39
	Cost of 212.816 kgs				28016.86
	Cost of 1 kg				131.65
	Say				131.65
26.63	Providing and fixing special adjustable lockbars of mild steel E-250 to support the temporary plywood for work between joists during construction as per design & directions of the Engineer-in-charge.				
	Detail of cost for 298.75 kgs				
	MATERIAL				
	Assuming special adjustable lock bar of mild steel will become unserviceable after use of 50 times				
	Taking salvage value after full use of material @ 35% of cost				
	Lock bar of size 1230mmx75mmx10mm				
	45 Nos x 4.35kg/each = 195.75 kg.				
	Lock bar of size 930mmx75mmx10mm				
	30 Nos x 3.3kg/each = 99.00 kg.				
	Total weight = 298.75 kgs				
	Assuming 50 repetition, Qty taken for cost of using once = 298.75/50=5.975 kgs				
	Considering salvage value @ 35%,				
7336	Lock Bar (E 250) - 10 thick MS Plate	kgs	3.88	76.00	294.88
	LABOUR (Reference item no 10.1)				
0019	Fitter (grade 1)	day	1.49	476.00	709.24
0013	Blacksmith 2nd class	day	2.24	374.50	838.88
0017	Beldar	day	2.99	320.83	959.28
	Total				2802.28 W
	Add 1 % Water charges on "W"				28.02
	TOTAL				2830.30 X
	Add GST (multiplying factor 0.1405) on "X"				397.66
	TOTAL				3227.96 Y
	Add 15 % Contractor's profit and overheads on "Y"				484.19
	Total				3712.16 Z
	Add Cess @ 1% on "Z"				37.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 298.75 kgs				3749.28
	Cost of 1 kg				12.55
	Say				12.55
26.64	Centering and shuttering with 12mm thick shuttering plywood confirming to IS 4990:2011 and removal of form at all heights. Plywood will be supported on lock bars.				
26.64.1	Suspended floors, roofs, landings, balconies and access platform.				
	Detail of cost for 13.50 sqm				
	MATERIAL				
	Assuming 12mm thick plywood will become unserviceable after use of 10 times				
	Area of roof = 13.50 sqm + Add wastage @ 5% = 0.675 sqm. Total = 14.175 sqm. Qty taken for cost using once = 14.175/10 = 1.4175 sqm				
8659	12mm thick waterproofing plywood confirming to IS 4990:2011	sqm	1.4175	517.00	732.85
	LABOUR (Reference item no 5.9.20)				
0015	Carpenter 2nd class	day	0.125	374.50	46.81
0017	Beldar	day	0.125	320.83	40.10
	Total				819.76 W
	Add 1 % Water charges on "W"				8.20
	TOTAL				827.96 X
	Add GST (multiplying factor 0.1405) on "X"				116.33
	TOTAL				944.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				141.64
	Total				1085.93 Z
	Add Cess @ 1% on "Z"				10.86
	Cost of 13.50 sqm				1096.79
	Cost of 1 sqm				81.24
	Say				81.25
26.65	Providing and fixing roofing consist of 0.8 mm thick galvanized steel deck sheet confirming to IS 277:1992 used as permanent shuttering over which MS wire mesh 3mm laid at 100x100 mm grid including edge trim covered with concrete. This metal deck will be supported on structural steel beam with shear studs. (Structural steel like Beam, column, joists etc. & concrete of different grade as per design will be paid separately).				
	Detail of cost for 10 sqm				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of GI sheet for 10sqm = 76.7 kgs + Add wastage @ 3% = 2.3 kg. Total = 79.00 kg				
8019	GI sheet 0.8 mm thick confirming to IS 277:1992 Length wire mesh 200metre/10 sqm. Weight of wire @ 0.06 kg/m. total weight = 12 kgs + Add wastage @ 5% = 0.6 kgs. Total 12.6 kg	kg	79.00	75.00	5925.00
1217	GI Wire mesh 100x100 mm	kg	12.60	75.00	945.00
2314	Carriage of sheet & wire	tonne	0.0916	94.34	8.64
1218	Shear stud	each	40.00	50.00	2000.00
9999	Nails/Tagged screws	L.S.	138.70	2.00	277.40
9999	Labour for fixing shear stud	L.S.	462.40	2.00	924.80
	Labour for sheeting (Ref item no 26.19.1)				
0030	Mistry	day	0.108	476.00	51.41
0015	Carpenter 2nd class	day	0.432	374.50	161.78
0017	Beldar	day	0.432	320.83	138.60
	Labour for laying wire mesh (Ref item no 5.22.2)				
0012	Blacksmith 1st class	day	0.12	476.00	57.12
0017	Beldar	day	0.120	320.83	38.50
	Total				10528.25 W
	Add 1 % Water charges on "W"				105.28
	TOTAL				10633.53 X
	Add GST (multiplying factor 0.1405) on "X"				1494.01
	TOTAL				12127.55 Y
	Add 15 % Contractor's profit and overheads on "Y"				1819.13
	Total				13946.68 Z
	Add Cess @ 1% on "Z"				139.47
	Cost of 10 sqm				14086.14
	Cost of 1 sqm				1408.61
	Say				1408.60
26.66	Providing and fixing in position, 130 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh duly finished with shortcrete materials on outer faces. The fabric mesh shall be made of 3 mm dia zinc coated G.I. wire mesh with 50 mm pitch in both the directions and on both faces of the wall and connected by GI wire of 3mm dia at alternate row by welding. The EPS core shall consist of 60 mm thick EPS of density not less than 16 kg/ per cum. Both the outer faces of the panel shall be finished by applying the layer of 35 mm thick cement mortar 1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} with the help of shotcreting/guniting equipment etc at a pressure not less than 1 bar (100KN/ m2) and both surfaces finished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1.20x3.00m=				
	3.60 sqm				
	MATERIAL				
	Area of EPS panel = 3.60 sqm +				
	Add wastage @5%. Total = 3.78 sqm				
8020	Factory made EPS Core wall panel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, connected by G.I. wire of 3mm dia at alternate row by welding	sqm	3.78	600.00	2268.00
9999	Add for L-shape, U-shape & straight lap mesh	L.S.	208.00	2.00	416.00
	Cement mortar 1:3 (1cement:3 coarse sand) 2x1.20x3.00x0.05= 0.36 cum				
3.8	Rate as per Item No.3.8 of SH: Mortar 10 mm	cum	0.252	4469.50	1126.31
	TMT bars 8 nos of 0.60 metre long. Total length = 4.8 m @ 0.617 kg/ metre. Total weight = 2.96 kg				
5.22.6	Rate as per 5.22.6 (SH:5 Reinforced Cement Concrete)	kg	2.96	76.85	227.48 A
9999	Tag screw with washers for wire mesh fixing	L.S.	78.00	2.00	156.00
9999	For fixing wall with foundation	L.S.	312.15	2.00	624.30
	LABOUR				
9999	For carrying out shotcreting, shoring, leveling, and finishing the surface with trowel.	L.S.	707.50	2.00	1415.00
	Total				6233.10 W
	Add 1 % Water charges on "W-A"	6005.61			60.06
	TOTAL				6293.15 X
	Add GST (multiplying factor 0.1405) on "X-A"	6065.67			852.23
	TOTAL				7145.38 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	6917.90			1037.68
	Total				8183.06 Z
	Add Cess @ 1% on "Z-A"	7955.58			79.56
	Cost of 3.6 sqm				8262.62
	Cost of 1 sqm				2295.17
	Say				2295.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.67	Providing and fixing of external thermal insulation and composite system with First layer of self-extinguishing type Expanded Polystyrene (EPS) insulation boards of 120 mm thick (max 1mX0.5m section), confirming to IS 4671:1984, having thermal conductivity of 0.034 W/mK, (measured as per IS 3346-1980), density of 20-24 kg/m³ measured as per IS 5688-1982, Fire retardant property self-extinguishing type as per EN 13501-1, bonded with special polymer modified cementitious adhesive confirming to EOTA ETAG 004 (European Technical Approval) formulated to bond polystyrene insulation boards to typical mineral substrate (according to ETAG 004) and Polypropylene mechanical fasteners with plastic pin confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm on finished level wall and the junction between two adjacent EPS boards to be sealed with low expansion moisture cure Polyurethane Foam. Second layer consists of Fiberglass mesh covered with alkali-resistant coating, mass per unit area > 145 gm/m², mesh size: 3.9x4.0 mm ±10% embedded in special polymer modified cementitious Base Coat with hydrophobes and the corners will be protected with Corner-beads with alkali- resistant mesh wings at least 10 cm wide, mesh mass per unit area min 145 gm/ m². The surface will be levelled, finished, made smooth complete in all respect as per manufactures specification and as per directions of Engineer-in-Charge.				
	Details of cost for 10 sqm				
	Material				
	Area of insulation board = 10 sqm + Add wastage @ 10% = 1 sqm. Total = 11.00 sqm				
8562	Expanded Polystyrene insulation board 120 mm thick confirming to IS 4671-1984, Fire retardant property self-extinguishing type as per EN 13501-1	sqm	11.00	800.00	8800.00
1252	Cementitious polymer base adhesive confirming to EOTA ETAG 004 (European Technical Approval)	kg	50.00	34.00	1700.00
1253	Polypropylene mechanical fastener with plastic pin confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm	each	100.00	30.00	3000.00
1254	Moisture cure Polyurethane Foam	750 ml	0.80	600.00	480.00
1255	PVC Corner Bead of size 25mmx25mm fixed with glass fibre mesh (100mm x 100mm)	metre	5.00	90.00	450.00
1256	Cementitious polymer base coat confirming to EOTA ETAG 004 (European Technical Approval)	kg	50.00	40.00	2000.00
1257	Fiberglass mesh with alkali-resistant coating having mass per unit area ≥ 145 g/m², mesh size: 3.9x4.0 mm ±10%	sqm	10.00	75.00	750.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Labour				
0031	Painter	day	4.00	374.50	1498.00
0017	Beldar	day	4.00	320.83	1283.32
9999	Trowel, Angle Float, Brushes, sand paper etc.	L.S.	72.25	2.00	144.50
9999	Sundries (PVC drip bead with glass fibre mesh wing (100mm x 100mm), expansion joint, starter track of 1mm thick aluminium alloy (120mm wide), polyurethane sealent, scaffolding etc.)	L.S.	1445.09	2.00	2890.18
	Total				22996.00 W
	Add 1 % Water charges on "W"				229.96
	TOTAL				23225.96 X
	Add GST (multiplying factor 0.1405) on "X"				3263.25
	TOTAL				26489.21 Y
	Add 15 % Contractor's profit and overheads on "Y"				3973.38
	Total				30462.59 Z
	Add Cess @ 1% on "Z"				304.63
	Cost of 10 sqm				30767.21
	Cost of 1 sqm				3076.72
	Say				3076.70
26.68	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:				
26.68.1	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL:				
8658	Precast C&D waste concrete block	1000 Nos	0.1109	25150.00	2789.14
2201	Carriage of blocks	1000 Nos	0.1109	0283.01	31.39
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.113	3160.60	357.15
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.33	476.00	157.08
0024	Mason (brick layer) 2nd class	day	0.33	374.50	123.59
0018	Coolie	day	1.00	320.83	320.83
0011	Bhisti	day	0.18	320.83	57.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				3842.37 W
	Add 1 % Water charges on "W"				38.42
	TOTAL				3880.80 X
	Add GST (multiplying factor 0.1405) on "X"				545.25
	TOTAL				4426.05 Y
	Add 15 % Contractor's profit and overheads on "Y"				663.91
	Total				5089.96 Z
	Add Cess @ 1% on "Z"				50.90
	Cost of 1 cum				5140.86
	Say				5140.85
26.69	Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level				
26.69.1	Cement mortar 1:6 (1 cement : 6 coarse sand)				
	Details of cost for 1 cum				
	MATERIAL:				
8658	Precast C&D waste concrete block	1000	0.1109	25150.00	2789.14
		Nos			
2201	Carriage of blocks	1000	0.1109	0283.01	31.39
		Nos			
	Cement mortar 1 : 6 (1 cement : 6 coarse sand)				
3.11	Rate as per item No 3.11 of SH: Mortar	cum	0.113	3160.60	357.15
9999	Sundries	L.S.	2.73	2.00	5.46
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.47	476.00	223.72
0024	Mason (brick layer) 2nd class	day	0.47	374.50	176.02
0018	Coolie	day	1.80	320.83	577.49
0011	Bhisti	day	0.20	320.83	64.17
9999	Scaffolding	L.S.	22.36	2.00	44.72
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0018	Coolie	day	1.13	320.83	362.54
	Total				4631.78 W
	Add 1 % Water charges on "W"				46.32
	TOTAL				4678.10 X
	Add GST (multiplying factor 0.1405) on "X"				657.27
	TOTAL				5335.37 Y
	Add 15 % Contractor's profit and overheads on "Y"				800.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				6135.68 Z
	Add Cess @ 1% on "Z"				61.36
	Cost of 1 cum				6197.04
	Say				6197.05
26.70	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:				
26.70.1	Cement mortar 1:4(1 cement : 4 coarse sand)				
	Details of cost for 10 sqm				
	MATERIAL:				
8658	Precast C&D waste concrete block	1000 Nos	0.12	25150.00	2919.92
2201	Carriage of blocks	1000 Nos	0.12	0283.01	32.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per item No 3.9 of SH: Mortar	cum	0.07	3815.05	270.11
9999	Sundries	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.45	476.00	214.20
0024	Mason (brick layer) 2nd class	day	0.45	374.50	168.53
0018	Coolie	day	1.55	320.83	497.29
0011	Bhisti	day	0.70	320.83	224.58
	Total				4354.51 W
	Add 1 % Water charges on "W"				43.55
	TOTAL				4398.06 X
	Add GST (multiplying factor 0.1405) on "X"				617.93
	TOTAL				5015.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				752.40
	Total				5768.38 Z
	Add Cess @ 1% on "Z"				57.68
	Cost of 10 sqm				5826.06
	Cost of 1 sqm				582.61
	Say				582.60
26.71	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.71.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
	Details of cost for 10 sqm				
	MATERIAL:				
8658	Precast C&D waste concrete block	1000 Nos	0.1161	25150.00	2919.92
2201	Carriage of blocks	1000 Nos	0.1161	283.01	32.86
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per item No 3.9 of SH: Mortar	cum	0.0708	3815.05	270.11
9999	Sundries	L.S.	13.52	2.00	27.04
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.60	0476.00	285.60
0024	Mason (brick layer) 2nd class	day	0.60	0374.50	224.70
0018	Coolie	day	2.00	0320.83	641.66
0011	Bhisti	day	0.70	0320.83	224.58
	Extra labour for lifting materials:				
0018	Coolie	day	1.29	0320.83	413.87
	Total				5040.33 W
	Add 1 % Water charges on "W"				50.40
	TOTAL				5090.73 X
	Add GST (multiplying factor 0.1405) on "X"				715.25
	TOTAL				5805.98 Y
	Add 15 % Contractor's profit and overheads on "Y"				870.90
	Total				6676.88 Z
	Add Cess @ 1% on "Z"				66.77
	Cost of 10 sqm				6743.65
	Cost of 1 sqm				674.36
	Say				674.35
26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.				
	Details of cost for 10 sqm				
	MATERIAL:				
7776	Concrete paver block of grade M-30 made of C&D waste (60mm thickness) Bedding layer - 50mm thick	sqm	10.00	317.22	3172.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	10x0.050=0.50 cum				
0982	Coarse sand	cum	0.50	1350.00	675.00
2203	Carriage of Coarse sand	cum	0.50	106.13	53.07
0983	Fine sand	cum	0.15	900.00	135.00
2261	Carriage of fine sand	cum	0.15	106.13	15.92
	Laying charges (Based on actual observation)				
	LABOUR				
0023	Mason (brick layer) 1st class	day	0.50	476.00	238.00
0024	Mason (brick layer) 2nd class	day	0.50	374.50	187.25
0017	Beldar	day	1.00	320.83	320.83
0018	Coolie	day	0.50	320.83	160.42
	Total				4957.68 W
	Add 1 % Water charges on "W"				49.58
	TOTAL				5007.26 X
	Add GST (multiplying factor 0.1405) on "X"				703.52
	TOTAL				5710.78 Y
	Add 15 % Contractor's profit and overheads on "Y"				856.62
	Total				6567.39 Z
	Add Cess @ 1% on "Z"				65.67
	Cost of 10 sqm				6633.07
	Cost of 1 sqm				663.31
	Say				663.30

26.73 Fabrication & Manufacturing of Prestressed Hollow Core slab (Hollow area 25 to 30%) of different thickness & modular width 1200 mm in Controlled Factory Environment with approved methodology confirming to IS 10297:1982 by using long line casting method having arrangement of proper steel bed. Concreting should be done by batch mixing plant capable of producing zero slump concrete, transported through automatic shuttels of standard make & layed on bed with the help of extruder/Slipformer, finishing, curing and also provision of steam curing. Cutting, making necessary cutout/holes of required sizes for services in slab element after achieving required strength, yard handling & stacking all complete as per approved shop drawings & design mix as per the direction of the Engineer-in-charge. (Cost of strands should be paid separately).

Note: Excess/less cement over the specified cement content used as per design mix is payable/recoverable separately)

26.73.1 Concrete Grade-M-40 (cement content 400 kg)

26.73.1.1 100 mm thick hollow core slab

Detail cost of 10.80 cum (120 Rmt)

120 Rmt X 1.20 m X .10 (25 % hollow)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	10.80	7741.90	83612.54 A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	10.80	139.55	1507.13 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	5.40	673.55	3637.19 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	10.80	500.00	5400.00
9999	Extra cost for preparing zero slump concrete	L.S.	936.00	2.00	1872.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of SH RCC (120x2x(1.20+0.10)=312)	sqm	312.00	35.05	10935.86 A
	TOTAL				110748.72 W
	Add 1 % Water charges on "W-A"	11056.00			110.56
	TOTAL				110859.28 X
	Add GST (multiplying factor 0.1405) on "X-A"	11166.56			1568.90
	TOTAL				112428.18 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	12735.46			1910.32
	Total				114338.50 Z
	Add Cess @ 1% on "Z-A"	14645.78			146.46
	Cost of 120 metre				114484.96
	Cost of 1 metre				954.04
	Say				954.05
26.73.1.2	120 mm thick hollow core slab				
	Detail cost of 12.96 cum (120 Rmt) 120 Rmt X 1.20 m X .12 (25 % hollow)				
5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	12.96	7741.90	100335.05 A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	12.96	139.55	1808.56 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	6.48	673.55	4364.62 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	12.96	500.00	6480.00
9999	Extra cost for preparing zero slump concrete	L.S.	1124.00	2.00	2248.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of SH RCC (120x2x(1.20+0.12)=316.80)	sqm	316.80	35.05	11104.11 A
	TOTAL				130124.34 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W-A"	12512.00			125.12
	TOTAL				130249.46 X
	Add GST (multiplying factor 0.1405) on "X-A"	12637.12			1775.52
	TOTAL				132024.97 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	14412.64			2161.90
	Total				134186.87 Z
	Add Cess @ 1% on "Z-A"	16574.53			165.75
	Cost of 120 metre				134352.61
	Cost of 1 metre				1119.61
	Say				1119.60
26.73.1.3	150 mm thick hollow core slab				
	Detail cost of 16.20 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.15 (25 % hollow)				
5.33.2	Rate as per item no 5.33.2 of				
	SH RCC (M-25)	cum	16.20	7741.90	125418.78 A
5.34.2	Rate as per item no 5.34.2 of				
	SH RCC (M-35 instead of M-25)				
	(Note : Cement content considered				
	in M-35 is @ 350 kg/ cum)	cum	16.20	139.55	2260.70 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	8.10	673.55	5455.78 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	16.20	500.00	8100.00
9999	Extra cost for preparing zero slump				
	concrete	L.S.	1405.00	2.00	2810.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of				
	SH RCC (120x2x(1.20+0.15)=324.00)	sqm	324.00	35.05	11356.20 A
	TOTAL				159185.46 W
	Add 1 % Water charges on "W-A"	14694.00			146.94
	TOTAL				159332.40 X
	Add GST (multiplying factor 0.1405) on "X-A"	14840.94			2085.15
	TOTAL				161417.55 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	16926.09			2538.91
	Total				163956.46 Z
	Add Cess @ 1% on "Z-A"	19465.01			194.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 120 metre				164151.11
	Cost of 1 metre				1367.93
	Say				1367.95
26.73.1.4 200 mm thick hollow core slab					
	Detail cost of 20.160 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.20 (30 % hollow)				
5.33.2	Rate as per item no 5.33.2 of				
	SH RCC (M-25)	cum	20.16	7741.90	156076.75 A
5.34.2	Rate as per item no 5.34.2 of				
	SH RCC (M-35 instead of M-25)				
	(Note : Cement content considered in				
	M-35 is @ 350 kg/ cum)	cum	20.16	139.55	2813.31 A
5.35	Rate as per item no 5.35 of SH RCC	qtls.	10.08	673.55	6789.41 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	20.16	500.00	10080.00
9999	Extra cost for preparing zero slump				
	concrete	L.S.	1748.00	2.00	3496.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of				
	SH RCC (120x2x(1.20+0.20)=336.00)	sqm	336.00	35.05	11777.08 A
	TOTAL				194816.56 W
	Add 1 % Water charges on "W-A"	17360.00			173.60
	TOTAL				194990.16 X
	Add GST (multiplying factor 0.1405) on "X-A"	17533.60			2463.47
	TOTAL				197453.63 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	19997.07			2999.56
	Total				200453.19 Z
	Add Cess @ 1% on "Z-A"	22996.63			229.97
	Cost of 120 metre				200683.15
	Cost of 1 metre				1672.36
	Say				1672.35

26.73.1.5 250 mm thick hollow core slab

	Detail cost of 25.20 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.25 (30 % hollow)				
5.33.2	Rate as per item no 5.33.2 of				
	SH RCC (M-25)	cum	25.20	7741.90	195095.88 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	25.20	139.55	3516.66 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	12.60	673.55	8486.73 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	25.20	500.00	12600.00
9999	Extra cost for preparing zero slump concrete	L.S.	2185.00	2.00	4370.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of SH RCC (120x2x(1.20+0.25)=348.00)	sqm	348.00	35.05	12197.40 A
	TOTAL				240050.67 W
	Add 1 % Water charges on "W-A"	20754.00			207.54
	TOTAL				240258.21 X
	Add GST (multiplying factor 0.1405) on "X-A"	20961.54			2945.10
	TOTAL				243203.31 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	23906.64			3586.00
	Total				246789.30 Z
	Add Cess @ 1% on "Z-A"	27492.63			274.93
	Cost of 120 metre				247064.23
	Cost of 1 metre				2058.87
	Say				2058.85

26.73.1.6 300 mm thick hollow core slab

Detail cost of 30.24 cum (120 Rmt)

120 Rmt X 1.20 m X 0.30 (30 % hollow)

5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	30.24	7741.90	234115.06 A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	30.24	139.55	4219.99 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	15.12	673.55	10184.08 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	30.24	500.00	15120.00
9999	Extra cost for preparing zero slump concrete	L.S.	2622.00	2.00	5244.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹	
	SH RCC (120x2x(1.20+0.30)=360.00)	sqm	360.00	35.05	12618.00	A
	TOTAL				285285.12	W
	Add 1 % Water charges on "W-A"	24148.00			241.48	
	TOTAL				285526.60	X
	Add GST (multiplying factor 0.1405) on "X-A"	24389.48			3426.72	
	TOTAL				288953.33	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	27816.20			4172.43	
	Total				293125.76	Z
	Add Cess @ 1% on "Z-A"	31988.63			319.89	
	Cost of 120 metre				293445.64	
	Cost of 1 metre				2445.38	
	Say				2445.40	
26.73.1.7	350 mm thick hollow core slab					
	Detail cost of 35.28 cum (120 Rmt)					
	120 Rmt X 1.20 m X 0.35 (30 % hollow)					
5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	35.28	7741.90	273134.31	A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	35.28	139.55	4923.30	A
5.35	Rate as per item no 5.35 of SH RCC	quintal	17.64	673.55	11881.48	A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00	
031	Steam curing by using boiler /Heater	cum	35.28	500.00	17640.00	
9999	Extra cost for preparing zero slump concrete	L.S.	3059.00	2.00	6118.00	
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00	
9999	Sundries	L.S.	13.00	2.00	26.00	
5.41.1	Rate as per item no 5.41.1 of SH RCC (120x2x(1.20+0.35)=372.00)	sqm	372.00	35.05	13038.91	A
	TOTAL				330519.99	W
	Add 1 % Water charges on "W-A"	27542.00			275.42	
	TOTAL				330795.41	X
	Add GST (multiplying factor 0.1405) on "X-A"	27817.42			3908.35	
	TOTAL				334703.76	Y
	Add 15 % Contractor's profit and overheads on "Y-A"	31725.77			4758.87	
	Total				339462.62	Z
	Add Cess @ 1% on "Z-A"	36484.63			364.85	
	Cost of 120 metre				339827.47	
	Cost of 1 metre				2831.90	

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				2831.90
26.73.1.8	400 mm thick hollow core slab				
	Detail cost of 40.32 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.40 (30 % hollow)				
5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	40.32	7741.90	312153.41 A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25) (Note : Cement content considered in M-35 is @ 350 kg/ cum)	cum	40.32	139.55	5626.66 A
5.35	Rate as per item no 5.35 of SH RCC	quintal	20.16	673.55	13578.77 A
9999	Hollow core bed cost	L.S.	1301.00	2.00	2602.00
031	Steam curing by using boiler /Heater	cum	40.32	500.00	20160.00
9999	Extra cost for preparing zero slump concrete	L.S.	3496.00	2.00	6992.00
9999	Cutting, marking, lifting & transportation	L.S.	578.00	2.00	1156.00
9999	Sundries	L.S.	13.00	2.00	26.00
5.41.1	Rate as per item no 5.41.1 of SH RCC (120x2x(1.20+0.40)=384.00)	sqm	384.00	35.05	13459.20 A
	TOTAL				375754.03 W
	Add 1 % Water charges on "W-A"	30936.00			309.36
	TOTAL				376063.39 X
	Add GST (multiplying factor 0.1405) on "X-A"	31245.36			4389.97
	TOTAL				380453.37 Y
	Add 15 % Contractor's profit and overheads on "Y-A"	35635.33			5345.30
	Total				385798.67 Z
	Add Cess @ 1% on "Z-A"	40980.63			409.81
	Cost of 120 metre				386208.47
	Cost of 1 metre				3218.40
	Say				3218.40
26.73.2	Extra for using M-50 (Cement content 425 kg) instead of M-40				
26.73.2.1	100mm thick hollow core slab				
	Detail cost of 10.80 cum (120 Rmt)				
	120 Rmt X 1.20 m X .10 (25 % hollow)				
	Cement for M-50 Mix = 4.590 T				
	Cement for M-40 Mix = 4.320 T				
	Difference 0.270 T				
0367	Portland Cement	tonne	0.270	4940.00	1333.80
2209	Carriage of cement	tonne	0.270	94.34	25.47
	Plasticizer for M-50 Mix = 91.800 Kgs				
	Plasticizer for M-40 Mix = 86.400 Kgs				
	Difference 5.400 Kgs				
7318	Plasticizer or Super Plasticizer				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2% of cement content	kg	5.400	36.00	194.40
	TOTAL				1553.67 W
	Add 1 % Water charges on "W"				15.54
	TOTAL				1569.21 X
	Add GST (multiplying factor 0.1405) on "X"				220.47
	TOTAL				1789.68 Y
	Add 15 % Contractor's profit and overheads on "Y"				268.45
	Total				2058.13 Z
	Add Cess @ 1% on "Z"				20.58
	Cost for 120 metre				2078.72
	Cost of 1 metre				17.32
	Say				17.30

26.73.2.2 120mm thick hollow core slab

Detail cost of 12.96 cum (120 Rmt) 120 Rmt X
1.20 m X .12 (25 % hollow) Cement for M-50
Mix = 5.508 T
Cement for M-40 Mix = 5.184 T
Difference 0.324 T

0367	Portland Cement	tonne	0.324	4940.00	1600.56
2209	Carriage of cement	tonne	0.324	94.34	30.57
	Plasticizer for M-50 Mix = 110.160 Kgs				
	Plasticizer for M-40 Mix = 103.680 Kgs				
	Difference 6.480 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	6.48	36.00	233.28
	TOTAL				1864.41 W
	Add 1 % Water charges on "W"				18.64
	TOTAL				1883.05 X
	Add GST (multiplying factor 0.1405) on "X"				264.57
	TOTAL				2147.62 Y
	Add 15 % Contractor's profit and overheads on "Y"				322.14
	Total				2469.76 Z
	Add Cess @ 1% on "Z"				24.70
	Cost for 120 metre				2494.46
	Cost of 1 metre				20.79
	Say				20.80

26.73.2.3 150mm thick hollow core slab

Detail cost of 16.20 cum (120 Rmt)
120 Rmt X 1.20 m X 0.15 (25 % hollow)
Cement for M-50 Mix = 6.885 T
Cement for M-40 Mix = 6.480 T

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Difference 0.405 T				
0367	Portland Cement	tonne	0.405	4940.00	2000.70
2209	Carriage of cement	tonne	0.405	94.34	38.21
	Plasticizer for M-50 Mix = 137.700 Kgs				
	Plasticizer for M-40 Mix = 129.600 Kgs				
	Difference 8.100 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	8.10	36.00	291.60
	TOTAL				2330.51 W
	Add 1 % Water charges on "W"				23.31
	TOTAL				2353.81 X
	Add GST (multiplying factor 0.1405) on "X"				330.71
	TOTAL				2684.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				402.68
	Total				3087.20 Z
	Add Cess @ 1% on "Z"				30.87
	Cost for 120 metre				3118.07
	Cost of 1 metre				25.98
	Say				26.00
26.73.2.4	200mm thick hollow core slab				
	Detail cost of 20.160 cum (120 Rmt)				
	120 Rmt X 1.20 m X0.20 (30 % hollow)				
	Cement for M-50 Mix = 8.568 T				
	Cement for M-40 Mix = 8.064 T				
	Difference 0.504 T				
0367	Portland Cement	tonne	0.504	4940.00	2489.76
2209	Carriage of cement	tonne	0.504	94.34	47.55
	Plasticizer for M-50 Mix = 171.360 Kgs				
	Plasticizer for M-40 Mix = 161.280 Kgs				
	Difference 10.080 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	10.08	36.00	362.88
	TOTAL				2900.19 W
	Add 1 % Water charges on "W"				29.00
	TOTAL				2929.19 X
	Add GST (multiplying factor 0.1405) on "X"				411.55
	TOTAL				3340.74 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y"				501.11
	Total				3841.85 Z
	Add Cess @ 1% on "Z"				38.42
	Cost for 120 metre				3880.27
	Cost of 1 metre				32.34
	Say				32.35
26.73.2.5	250mm thick hollow core slab				
	Detail cost of 25.20 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.25 (30 % hollow)				
	Cement for M-50 Mix = 10.710 T				
	Cement for M-40 Mix = 10.080 T				
	Difference 0.630 T				
0367	Portland Cement	tonne	0.63	4940.00	3112.20
2209	Carriage of cement	tonne	0.63	94.34	59.43
	Plasticizer for M-50 Mix = 214.200 Kgs				
	Plasticizer for M-40 Mix = 201.600 Kgs				
	Difference 12.600 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	12.60	36.00	453.60
	TOTAL				3625.23 W
	Add 1 % Water charges on "W"				36.25
	TOTAL				3661.49 X
	Add GST (multiplying factor 0.1405) on "X"				514.44
	TOTAL				4175.92 Y
	Add 15 % Contractor's profit and overheads on "Y"				626.39
	Total				4802.31 Z
	Add Cess @ 1% on "Z"				48.02
	Cost for 120 metre				4850.34
	Cost of 1 metre				40.42
	Say				40.40
26.73.2.6	300mm thick hollow core slab				
	Detail cost of 30.24 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.30 (30 % hollow)				
	Cement for M-50 Mix = 12.852 T				
	Cement for M-40 Mix = 12.096 T				
	Difference 0.756 T				
0367	Portland Cement	tonne	0.756	4940.00	3734.64
2209	Carriage of cement	tonne	0.756	94.34	71.32
	Plasticizer for M-50 Mix = 257.040 Kgs				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Plasticizer for M-40 Mix = 241.920 Kgs				
	Difference 15.1200 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	15.12	36.00	544.32
	TOTAL				4350.28 W
	Add 1 % Water charges on "W"				43.50
	TOTAL				4393.78 X
	Add GST (multiplying factor 0.1405) on "X"				617.33
	TOTAL				5011.11 Y
	Add 15 % Contractor's profit and overheads on "Y"				751.67
	Total				5762.77 Z
	Add Cess @ 1% on "Z"				57.63
	Cost for 120 metre				5820.40
	Cost of 1 metre				48.50
	Say				48.50

26.73.2.7 350mm thick hollow core slab

	Detail cost of 35.28 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.35 (30 % hollow)				
	Cement for M-50 Mix = 14.994 T				
	Cement for M-40 Mix = 14.112 T				
	Difference 0.882 T				
0367	Portland Cement	tonne	0.882	4940.00	4357.08
2209	Carriage of cement	tonne	0.882	94.34	83.21
	Plasticizer for M-50 Mix = 299.880 Kgs				
	Plasticizer for M-40 Mix = 282.240 Kgs				
	Difference 17.640 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	17.64	36.00	635.04
	TOTAL				5075.33 W
	Add 1 % Water charges on "W"				50.75
	TOTAL				5126.08 X
	Add GST (multiplying factor 0.1405) on "X"				720.21
	TOTAL				5846.29 Y
	Add 15 % Contractor's profit and overheads on "Y"				876.94
	Total				6723.24 Z
	Add Cess @ 1% on "Z"				67.23

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 120 metre				6790.47
	Cost of 1 metre				56.59
	Say				56.60
26.73.2.8	400mm thick hollow core slab				
	Detail cost of 40.32 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.40 (30 % hollow)				
	Cement for M-50 Mix = 17.136 T				
	Cement for M-40 Mix = 16.128 T				
	Difference 1.008 T				
0367	Portland Cement	tonne	1.008	4940.00	4979.52
2209	Carriage of cement	tonne	1.008	94.34	95.09
	Plasticizer for M-50 Mix = 342.720 Kgs				
	Plasticizer for M-40 Mix = 322.560 Kgs				
	Difference 20.160 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	20.16	36.00	725.76
	TOTAL				5800.37 W
	Add 1 % Water charges on "W"				58.00
	TOTAL				5858.38 X
	Add GST (multiplying factor 0.1405) on "X"				823.10
	TOTAL				6681.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				1002.22
	Total				7683.70 Z
	Add Cess @ 1% on "Z"				76.84
	Cost for 120 metre				7760.54
	Cost of 1 metre				64.67
	Say				64.65
26.73.3	Extra for using M-60 (Cement content 440 kg) instead of M-40				
26.73.3.1	100mm thick hollow core slab				
	Detail cost of 10.80 cum (120 Rmt)				
	120 Rmt X 1.20 m X .10 (25 % hollow)				
	Cement for M-60 Mix = 4.752 T				
	Cement for M-40 Mix = 4.320 T				
	Difference 0.432 T				
0367	Portland Cement	tonne	0.432	4940.00	2134.08
2209	Carriage of cement	tonne	0.432	94.34	40.75
	Plasticizer for M-60 Mix = 95.040 Kgs				
	Plasticizer for M-40 Mix = 86.400 Kgs				
	Difference 8.640 Kgs				
7318	Plasticizer or Super Plasticizer 2% of				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	cement content	kg	8.640	36.00	311.04
	TOTAL				2485.87 W
	Add 1 % Water charges on "W"				24.86
	TOTAL				2510.73 X
	Add GST (multiplying factor 0.1405) on "X"				352.76
	TOTAL				2863.49 Y
	Add 15 % Contractor's profit and overheads on "Y"				429.52
	Total				3293.01 Z
	Add Cess @ 1% on "Z"				32.93
	Cost for 120 metre				3325.94
	Cost of 1 metre				27.72
	Say				27.70

26.73.3.2 120mm thick hollow core slab

	Detail cost of 12.96 cum (120 Rmt)				
	120 Rmt X 1.20 m X .12 (25 % hollow)				
	Cement for M-60 Mix = 5.702 T				
	Cement for M-40 Mix = 5.184 T				
	Difference 0.518 T				
0367	Portland Cement	tonne	0.518	4940.00	2558.92
2209	Carriage of cement	tonne	0.518	94.34	48.87
	Plasticizer for M-60 Mix = 114.048 Kgs				
	Plasticizer for M-40 Mix = 103.680 Kgs				
	Difference 10.368 Kgs				
7318	Plasticizer or Super Plasticizer 2% of				
	cement content	kg	10.368	36.00	373.25
	TOTAL				2981.03 W
	Add 1 % Water charges on "W"				29.81
	TOTAL				3010.85 X
	Add GST (multiplying factor 0.1405) on "X"				423.02
	TOTAL				3433.87 Y
	Add 15 % Contractor's profit and overheads on "Y"				515.08
	Total				3948.95 Z
	Add Cess @ 1% on "Z"				39.49
	Cost for 120 metre				3988.44
	Cost of 1 metre				33.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Say				33.25
26.73.3.3	150mm thick hollow core slab				
	Detail cost of 16.20 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.15 (25 % hollow)				
	Cement for M-60 Mix = 7.128 T				
	Cement for M-40 Mix = 6.480 T				
	Difference 0.648 T				
0367	Portland Cement	tonne	0.648	4940.00	3201.12
2209	Carriage of cement	tonne	0.648	94.34	61.13
	Plasticizer for M-60 Mix = 114.048 Kgs				
	Plasticizer for M-40 Mix = 129.600 Kgs				
	Difference 12.960 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	12.96	36.00	466.56
	TOTAL				3728.81 W
	Add 1 % Water charges on "W"				37.29
	TOTAL				3766.10 X
	Add GST (multiplying factor 0.1405) on "X"				529.14
	TOTAL				4295.24 Y
	Add 15 % Contractor's profit and overheads on				644.29
	Total				4939.52 Z
	Add Cess @ 1% on "Z"				49.40
	Cost for 120 metre				4988.92
	Cost of 1 metre				41.57
	Say				41.55
26.73.3.4	200mm thick hollow core slab				
	Detail cost of 20.160 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.20 (30 % hollow)				
	Cement for M-60 Mix = 8.870 T				
	Cement for M-40 Mix = 8.064 T				
	Difference 0.806 T				
0367	Portland Cement	tonne	0.806	4940.00	3981.64
2209	Carriage of cement	tonne	0.806	94.34	76.04
	Plasticizer for M-60 Mix = 177.408 Kgs				
	Plasticizer for M-40 Mix = 161.280 Kgs				
	Difference 16.128 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	16.128	36.00	580.61
	TOTAL				4638.28 W
	Add 1 % Water charges on "W"				46.38
	TOTAL				4684.67 X
	Add GST (multiplying factor 0.1405) on "X"				658.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5342.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				801.43
	Total				6144.29 Z
	Add Cess @ 1% on "Z"				61.44
	Cost for 120 metre				6205.74
	Cost of 1 metre				51.71
	Say				51.70
26.73.3.5	250mm thick hollow core slab				
	Detail cost of 25.20 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.25 (30 % hollow)				
	Cement for M-60 Mix = 11.088 T				
	Cement for M-40 Mix = 10.080 T				
	Difference 1.008 T				
0367	Portland Cement	tonne	1.008	4940.00	4979.52
2209	Carriage of cement	tonne	1.008	94.34	95.09
	Plasticizer for M-60 Mix = 221.760 Kgs				
	Plasticizer for M-40 Mix = 201.600 Kgs				
	Difference 20.160 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	20.16	36.00	725.76
	TOTAL				5800.37 W
	Add 1 % Water charges on "W"				58.00
	TOTAL				5858.38 X
	Add GST (multiplying factor 0.1405) on "X"				823.10
	TOTAL				6681.48 Y
	Add 15 % Contractor's profit and overheads on "Y"				1002.22
	Total				7683.70 Z
	Add Cess @ 1% on "Z"				76.84
	Cost for 120 metre				7760.54
	Cost of 1 metre				64.67
	Say				64.65
26.73.3.6	300mm thick hollow core slab				
	Detail cost of 30.24 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.30 (30 % hollow)				
	Cement for M-60 Mix = 13.306 T				
	Cement for M-40 Mix = 12.096 T				
	Difference 1.210 T				
0367	Portland Cement	tonne	1.21	4940.00	5977.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	1.21	94.34	114.15
	Plasticizer for M-60 Mix = 266.112 Kgs				
	Plasticizer for M-40 Mix = 241.920 Kgs				
	Difference 24.192 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	24.192	36.00	870.91
	TOTAL				6962.46 W
	Add 1 % Water charges on "W"				69.62
	TOTAL				7032.09 X
	Add GST (multiplying factor 0.1405) on "X"				988.01
	TOTAL				8020.09 Y
	Add 15 % Contractor's profit and overheads on "Y"				1203.01
	Total				9223.11 Z
	Add Cess @ 1% on "Z"				92.23
	Cost for 120 metre				9315.34
	Cost of 1 metre				77.63
	Say				77.65
26.73.3.7	350mm thick hollow core slab				
	Detail cost of 35.28 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.35 (30 % hollow)				
	Cement for M-60 Mix = 15.523 T				
	Cement for M-40 Mix = 14.112 T				
	Difference 1.411 T				
0367	Portland Cement	tonne	1.411	4940.00	6970.34
2209	Carriage of cement	tonne	1.411	94.34	133.11
	Plasticizer for M-60 Mix = 310.464 Kgs				
	Plasticizer for M-40 Mix = 282.240 Kgs				
	Difference 28.224 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	28.224	36.00	1016.06
	TOTAL				8119.51 W
	Add 1 % Water charges on "W"				81.20
	TOTAL				8200.71 X
	Add GST (multiplying factor 0.1405) on "X"				1152.20
	TOTAL				9352.91 Y
	Add 15 % Contractor's profit and overheads on "Y"				1402.94
	Total				10755.85 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				107.56
	Cost for 120 metre				10863.40
	Cost of 1 metre				90.53
	Say				90.55
26.73.3.8	400mm thick hollow core slab				
	Detail cost of 40.32 cum (120 Rmt)				
	120 Rmt X 1.20 m X 0.40 (30 % hollow)				
	Cement for M-60 Mix = 17.741 T				
	Cement for M-40 Mix = 16.128 T				
	Difference 1.613 T				
0367	Portland Cement	tonne	1.613	4940.00	7968.22
2209	Carriage of cement	tonne	1.613	94.34	152.17
	Plasticizer for M-60 Mix = 354.816 Kgs				
	Plasticizer for M-40 Mix = 322.560 Kgs				
	Difference 32.256 Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	32.256	36.00	1161.22
	TOTAL				9281.60 W
	Add 1 % Water charges on "W"				92.82
	TOTAL				9374.42 X
	Add GST (multiplying factor 0.1405) on "X"				1317.11
	TOTAL				10691.52 Y
	Add 15 % Contractor's profit and overheads on "Y"				1603.73
	Total				12295.25 Z
	Add Cess @ 1% on "Z"				122.95
	Cost for 120 metre				12418.21
	Cost of 1 metre				103.49
	Say				103.50
26.74	Fabrication and manufacturing of solid precast concrete element with provisions of shear keys, connecting loops, dowel tubes and proper lifting accessories for walls, beams, slabs, stairs, column etc, of various thickness, shape and size of different concrete grades manufactured in controlled factory environment with approved methodology including moulds (Pallet system, Tilts form, table moulds, battery moulds, vertical moulds, beam moulds, column moulds, staircase moulds, Facade mould, etc.), mixing, transporting and placing of concrete, vibrating, curing, finishing, making necessary cutout/holes of required sizes for services, yard handling & stacking all complete as per IS 11447:1985 and as per approved shop drawings and design mix as per the direction of Engineer- in-Charge (Cost of reinforcement, Mechanical, Electrical and Plumbing inserts will be paid separately).				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Note: Excess/less cement over the specified cement content used as per design mix is payable/recoverable separately)					
26.74.1	Concrete grade M-35 (Cement content 370 kgs)				
	Detail of cost for 1.26 Cum				
	Considers a wall 2.80 X 3.00 X 0.15 =1.260 Cum				
5.33.2	Rate as per item no 5.33.2 of SH RCC (M-25)	cum	1.260	7741.90	9754.80 A
5.34.2	Rate as per item no 5.34.2 of SH RCC (M-35 instead of M-25)	cum	1.260	139.55	175.83 A
	(Note : Cement content considered in M-35 is @ 350 kg/ cum)				
5.35	Rate as per item no 5.35 of SH RCC (M-35 (370 kgs))	quintal	0.252	673.55	169.73 A
9999	Cost of hosting and fixing moulds	L.S	372.00	2.00	744.00
5.9.1	Rate as per item 5.9.1 of SH RCC, Side Shuttering of walls ((2.8+3)x2x0.15=1.74)	sqm	1.74	216.45	376.62 A
9999	Table buffing & oiling	L.S	174.00	2.00	348.00
9999	Sundries (Extra labour for Lifting, transportation, stacking of finished precast elements)	L.S	230.00	2.00	460.00
5.41.1	Rate as per item no 5.41.1 of SH RCC (Curing using curing compound)	sqm	18.54	35.05	649.83 A
7929	Shear loops (6mm dia GI wire rope) (For vertical joints) 6 nos on each side	each	12.00	192.00	2304.00
7930	dowel tubes (Corrugated GI pipes 50 to 80mm dia) (For horizontal joints)	metre	3.00	120.00	360.00
9999	Shear key (6mm thick mechanically folded MS plate)	L.S	115.00	2.00	230.00
7931	Hooks for lifting (Alloy steel) having 2.5 tonne capacity	each	2.00	250.00	500.00
	Labour for fixing accessories & inserts such as shear loops, shear keys, dowel tubes, lifting hooks				
0040	Mason (Average)	day	0.50	374.50	187.25
0018	Coolie	day	0.50	320.83	160.42
	Labour for operating of hoisting & fixing moulds				
0042	Operator	day	0.50	392.00	196.00
0019	Fitter (Grade 1)	day	0.30	476.00	142.80
0018	Coolie	day	0.30	320.83	96.25
9999	Sundries (Labour cost such as crane, trailer(flat bed & a frames) & panel racks for stacking of precast concrete panel wall)	L.S	173.41	2.00	346.82
	TOTAL				17202.35 W
	Add 1 % Water charges on "W-A"	6075.53			60.76
	TOTAL				17263.10 X
	Add GST (multiplying factor 0.1405) on "X-A"	6136.29			862.15
	TOTAL				18125.25 Y

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15 % Contractor's profit and overheads on "Y-A"		6998.44		1049.77
	Total				19175.02 Z
	Add Cess @ 1% on "Z-A"		8048.20		80.48
	Cost for 1.26 Cum				19255.50
	Cost of 1 Cum				15282.14
	Say				15282.15
26.74.2	Extra for using M-40 (Cement content 400 kg) instead of M-35				
0367	Cement for M-35 Mix = 0.370 T Cement for M-40 Mix = 0.400 T Difference 0.030 T				
	Portland Cement	tonne	0.03	4940.00	148.20
2209	Carriage of cement	tonne	0.03	94.34	2.83
	Plasticizer for M-35 Mix =7.400 Kgs				
	Plasticizer for M-40 Mix = 8.000 Kgs				
	Difference 0.600Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	0.60	36.00	21.60
	TOTAL				172.63 W
	Add 1 % Water charges on "W"				1.73
	TOTAL				174.36 X
	Add GST (multiplying factor 0.1405) on "X"				24.50
	TOTAL				198.85 Y
	Add 15 % Contractor's profit and overheads on "Y"				29.83
	Total				228.68 Z
	Add Cess @ 1% on "Z"				2.29
	Cost of 1.00 Cum				230.97
	Say				230.95
26.74.3	Extra for using M-50 (Cement content 425 kg) instead of M-35				
	Cement for M-35 Mix = 0.370 T				
	Cement for M-50 Mix = 0.425 T				
	Difference 0.055 T				
0367	Portland Cement	tonne	0.055	4940.00	271.70
2209	Carriage of cement	tonne	0.055	94.34	5.19
	Plasticizer for M-35 Mix =7.400 Kgs				
	Plasticizer for M-50 Mix = 8.500 Kgs				
	Difference 1.100Kgs				
7318	Plasticizer or Super Plasticizer 2% of cement content	kg	1.10	36.00	39.60
	TOTAL				316.49 W
	Add 1 % Water charges on "W"				3.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				319.65 X
	Add GST (multiplying factor 0.1405) on "X"				44.91
	TOTAL				364.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				54.68
	Total				419.25 Z
	Add Cess @ 1% on "Z"				4.19
	Cost of 1.00 Cum				423.44
	Say				423.45

26.74.4 Extra for using M-60 (Cement content 440 kg) instead of M-35

Cement for M-35 Mix = 0.370 T

Cement for M-60 Mix = 0.440 T

Difference 0.070 T

0367	Portland Cement	tonne	0.07	4940.00	345.80
2209	Carriage of cement	tonne	0.07	94.34	6.60

Plasticizer for M-35 Mix = 7.400 Kgs

Plasticizer for M-60 Mix = 8.800 Kgs

Difference 1.400Kgs

7318	Plasticizer or Super Plasticizer 2% of cement content	kg	1.40	36.00	50.40

TOTAL 402.80 W

Add 1 % Water charges on "W" 4.03

TOTAL 406.83 X

Add GST (multiplying factor 0.1405) on "X" 57.16

TOTAL 463.99 Y

Add 15 % Contractor's profit and overheads on "Y" 69.60

Total 533.59 Z

Add Cess @ 1% on "Z" 5.34

Cost of 1.00 Cum 538.93

Say 538.95

26.75 Providing & laying in position Prestressing steel strands (low relaxation) on hollow core bed by using mechanical pulling arrangement like Rabbit/ Bed master including all accessories for Stressing & destressing operations as per approved make conforming to IS1343 & grade FY-1860 etc, complete as per drawings and direction of Engineer -in-charge.

Considering Four beds 8 strands (each strand is of 9.53mm dia consisting of 7 wires) X 4 beds X 120 Rmt X 0.453 Unit wt = 1739.52 kas. Sav 1740kas.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of Cost for 1740 Kg MATERIALS Quantity = 17.40 quintal + Add wastage 10 % = 1.74 q. Total = 19.14 q				
0993	FY-1860 grade wire strands	quintal	19.14	5700.00	109098.00
2205	Carriage of material	Kgs	1.914	94.34	180.56
	Cutting baldes required for strand cutting				
9999	Strand cutting by cutting saw machine	L.S.	555.00	2.00	1110.00
	Wedges				
9999	Cost of wedge	L.S.	617.00	2.00	1234.00
	Resources - For laying and fixing cables, anchorages				
0028	Mate	day	1.00	320.83	320.83
0012	Blacksmith 1st class	day	4.00	476.00	1904.00
0018	Coolie	day	3.00	320.83	962.49
	Labour- For prestressing				
0028	Mate	day	2.00	320.83	641.66
0019	Fitter (Grade-1)	day	3.00	476.00	1428.00
0042	Operators	day	2.00	392.00	784.00
0018	Coolie	day	2.00	320.83	641.66
	MACHINERY (12 HRS Required to Lay 1.914 Ton strands on 4 beds)				
032	Stressing Machine (jack with pump)	day	1.50	11500.00	17250.00
028	Hire & Running Charges of Crane 20 TonCapacity to handle strands (8 Nos. strand coils (averege weight 3Ton each) required to lay one bed of 8 strands as one coil can lay only one strand at a time. Therefore to operate one complete bed total 8 Nos strand coils required, hence total 3X8= 24 Ton weight will be handled for one bed)	day	1.50	7000.00	10500.00
034	Cutting Saw Machine	day	1.50	1350.00	2025.00
030	Hire charges of Generator 250 KVA	day	1.50	2500.00	3750.00
035	Strands Roller machinery for laying strands	day	1.50	3500.00	5250.00
036	Bed master (Pulling strands)	day	1.50	3000.00	4500.00
028	"Crane handling charges for bed master & stressing machine."One bed master approx wt = 03 Ton (to be placed on each bed with the help of crane for laying of strands)"One stressing Machine approx wt = 2.5 Ton (to be placed on each active ends of bed with the help of crane for initial pulling & stressing of strands). Handling & Shifting of bed master & stressing machine has to be done for each bed separately."	day	1.50	7000.00	10500.00
1235	Diesel for generator set (14 litres per hour for 11 hours)	Litre	154.00	73.50	11319.00
	TOTAL				183399.20 W
	Add 1 % Water charges on "W"				1833.99
	TOTAL				185233.19 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST (multiplying factor 0.1405) on "X"				26025.26
	TOTAL				211258.46 Y
	Add 15 % Contractor's profit and overheads on "Y"				31688.77
	Total				242947.23 Z
	Add Cess @ 1% on "Z"				2429.47
	Cost for 1740 kgs				245376.70
	Cost of 1 Kg				141.02
	Say				141.00
26.76	Transportation of Precast Elements by flat bed Trailor (Double / Triple axle 40ft Length with proper accessories like A frame etc) from factory, including the cost of loading , unloading & stacking at site with the help of required capacity cranes.				
26.76.1	Lead within 15km				
9999	Trailors having capcity 22MT Hire charges of truck trailors Number of trips in working day of 8 hours $N=8/\{(2L/S)+2\}$. Where L=Lead in Km., S=Speed in Km.per hour, 1 hour is allowed for loading & 1 hour for unloading. L= 15 km. S= 15 km / hr $N=8/\{(30/15)+2\}=02$ Trips / day Charges of Trailors having capcity 22MT including cost of fuel & driver	L.S.	1738.00	2.00	3,476.00
028	cost and maintenance Hire charges of Crane capacity of 30MT for loading from stock yard and unloading at site for 120 MT.	day	0.3667	7000.00	2,566.90
0028	Mate	day	0.50	320.83	160.42
0017	Beldar	day	0.50	320.83	160.42
9999	wooden battens for tranporatation	L.S.	57.80	2.00	115.60
9999	Chain for packing & binding precast elements	L.S.	57.80	2.00	115.60
9999	sundries	L.S.	220.00	2.00	440.00
	TOTAL				7,034.93 W
	Add 1 % Water charges on "W"				70.35
	TOTAL				7105.28 X
	Add GST (multiplying factor 0.1405) on "X"				998.29
	TOTAL				8103.57 Y
	Add 15 % Contractor's profit and overheads on "Y"				1215.54
	Total				9319.11 Z
	Add Cess @ 1% on "Z"				93.19
	Cost of 22 MT				9412.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 MT				427.83
	Say				427.85
26.76.2	Add/Deduct over item 26.76.1 for every additional lead of 5 km				
	Extra for lead 5 km				
9999	Charges of Trailors having capacity 22MT including cost of fuel & driver and maintenance sundries	L.S.	579.00	2.00	1158.00
9999		L.S.	220.00	2.00	440.00
	TOTAL				1598.00 W
	Add 1 % Water charges on "W"				15.98
	TOTAL				1613.98 X
	Add GST (multiplying factor 0.1405) on "X"				226.76
	TOTAL				1840.74 Y
	Add 15 % Contractor's profit and overheads on "Y"				276.11
	Total				2116.86 Z
	Add Cess @ 1% on "Z"				21.17
	Cost of 22 MT				2138.02
	Cost of 1 MT				97.18
	Say				97.20
26.77	Erection & Installation of Precast / Prestressed Concrete elements in correct & final position with proper line level and plumb at site making all arrangements (i.e cranes, push-pull jacks & all another T & P for lifting Placing & Alignment of elements, within erection tolerance as per IS 15916 as per approved shop drawings and all complete as per the direction of Engineer-in-Charge but excluding the cost of sim pads, non shrink grout and steel works i.e hangers. All work up to fifth floor.				
26.77.1	Prestressed hollow core Slab up to 200 mm thickness				
	Detail of cost for 150 Sqm.				
	Length of element can be upto 8.00metres.				
	Mobile crane (Tyre mounted) upto 25m height 100 feet boom				
044	Cost for crane upto 40 tonne capacity	day	1.00	8000.00	8000.00
9999	Hire charges of props & Misc	L.S.	434.00	0002.00	868.00
070	Genrator hiring 100kva	hour	8.00	0250.00	2000.00
	Labour cost for erection				0.00
0014	Carpenter 1st class	day	1.00	0476.00	476.00
0015	Carpenter 2nd class	day	2.00	0374.50	749.00
0019	Fitter (grade 1)	day	2.00	0476.00	952.00
0030	Mistry	day	2.00	0476.00	952.00
0017	Beldar	day	2.00	0320.83	641.66
9999	Beldar	L.S.	500.00	0002.00	1000.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL:				15638.66 W
	Add 1 % Water charges on "W"				156.39
	TOTAL				15795.05 X
	Add GST (multiplying factor 0.1405) on "X"				2219.20
	TOTAL				18014.25 Y
	Add 15 % Contractor's profit and overheads on "Y"				2702.14
	Total				20716.39 Z
	Add Cess @ 1% on "Z"				207.16
	Cost of 150 Sqm				20923.55
	Cost of 1 Sqm				139.49
	Say				139.50

26.77.2 Prestressed hollow core slab above 200 mm up to 400 mm thickness

Detail of cost for 120 Sqm.

Length of element can be more than 8.00 metre and upto 14.00 metres.

067	Cost for crane upto 80 tonne capacity	day	1.00	15000.00	15000.00
9999	Hire charges of props & Misc	L.S.	347.00	0002.00	694.00
070	Genrator hiring 100kva	hour	8.00	0250.00	2000.00
	Labour cost for erection				
0014	Carpenter 1st class	day	1.00	0476.00	476.00
0015	Carpenter 2nd class	day	2.00	0374.50	749.00
0019	Fitter (grade 1)	day	2.00	0476.00	952.00
0030	Mistry	day	2.00	0476.00	952.00
0017	Beldar	day	2.00	0320.83	641.66
9999	Sundries (Miscellaneous tools and lifting slings)	L.S.	500.00	0002.00	1000.00
	TOTAL				22464.66 W
	Add 1 % Water charges on "W"				224.65
	TOTAL				22689.31 X
	Add GST (multiplying factor 0.1405) on "X"				3187.85
	TOTAL				25877.15 Y
	Add 15 % Contractor's profit and overheads on "Y"				3881.57
	Total				29758.73 Z
	Add Cess @ 1% on "Z"				297.59
	Cost of 120 Sqm				30056.31
	Cost of 1 Sqm				250.47
	Say				250.45

26.77.3 Solid concrete wall elements

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Detail of cost for 18 Cum. / Day Considering volume of different type of elements wall elements = 15 cum (13 nos) Beams / portal = 3 cum (02 nos) Total no of elements = 15 nos				
072	Cost for crane (50 MT) duration 01 day	day	1.00	8500.00	8500.00
9999	Shifting of elements	L.S.	434.00	2.00	868.00
9999	Hire charges of props & Misc for 3 days (3x3 = 9 / pc)	L.S.	780.00	2.00	1560.00
1027	Erection Bolts (Minimum 04 nos for each element)	each	60.00	25.00	1500.00
070	Genrator hiring 100kva	hour	8.00	250.00	2000.00
	Labour cost				0.00
0014	Forman	day	2.00	476.00	952.00
0015	Carpenter 2nd class	day	2.00	374.50	749.00
0019	Fitter (grade 1)	day	2.00	476.00	952.00
0030	Mistry	day	3.00	476.00	1428.00
0019	rigger	day	2.00	476.00	952.00
0017	Beldar	day	8.00	320.83	2566.64
9999	Scaffolding, hire charge of drill machine etc.	L.S.	500.00	2.00	1000.00
9999	Sundries (Miscellaneous tools and lifting slings)	L.S.	500.00	2.00	1000.00
	TOTAL :				24027.64 W
	Add 1 % Water charges on "W"				240.28
	TOTAL				24267.92 X
	Add GST (multiplying factor 0.1405) on "X"				3409.64
	TOTAL				27677.56 Y
	Add 15 % Contractor's profit and overheads on "Y"				4151.63
	Total				31829.19 Z
	Add Cess @ 1% on "Z"				318.29
	Cost of 18 Cum				32147.48
	Cost of 1 Cum				1785.97
	Say				1785.95
26.78	Providing & Applying weather proof sealant on outer joints of approved make confirming to IS & directed by Engineer-in-charge.				
26.78.1	Sealant 25mmx10mm at joints				
	Detail of material required for =				
	1.00 metre				
	including 5 % wastage				
8646	Silicon sealant (including 5% wastage)	cartridge	0.87	100.00	87.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8654	Masking tape	metre	2.00	1.95	3.90
9999	Scaffolding, hire charge etc.	L.S.	2.87	2.00	5.74
9999	Sundries	L.S.	2.87	2.00	5.74
	TOTAL				102.38 W
	Add 1 % Water charges on "W"				1.02
	TOTAL				103.40 X
	Add GST (multiplying factor 0.1405) on "X"				14.53
	TOTAL				117.93 Y
	Add 15 % Contractor's profit and overheads on "Y"				17.69
	Total				135.62 Z
	Add Cess @ 1% on "Z"				1.36
	Cost of each				136.98
	Say				137.00
26.79	Providing & Laying of levelling sim pads required sizes (5x5cm to 10x10cm) of PVC / Rubber to adjust level of bearing surface of supporting members as per the direction of Engineer in charge.				
26.79.1	2mm thick				
	Detail of cost for 100 nos				
	MATERIAL				
0246	2mm thick sim pad	each	100.00	10.00	1000.00
9977	Carriage of material	L.S	5.00	2.00	10.00
	LABOUR				
0019	Fitter (Grade-1)	day	1.00	476.00	476.00
9999	Sundries	LS	10.00	2.00	20.00
	TOTAL				1506.00 W
	Add 1 % Water charges on "W"				15.06
	TOTAL				1521.06 X
	Add GST (multiplying factor 0.1405) on "X"				213.71
	TOTAL				1734.77 Y
	Add 15 % Contractor's profit and overheads on "Y"				260.22
	Total				1994.98 Z
	Add Cess @ 1% on "Z"				19.95
	Cost for 100 Nos				2014.93
	Cost of each				20.15
	Say				20.15
26.79.2	5 mm thick				
	Detail of cost for 100 nos				
	MATERIAL				
0247	5 mm thick sim pad	each	100.00	15.00	1500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9977	Carriage of material LABOUR	L.S	5.00	2.00	10.00
0019	Fitter (Grade-1)	day	1.00	476.00	476.00
9999	Sundries	LS	10.00	2.00	20.00
	TOTAL				2006.00 W
	Add 1 % Water charges on "W"				20.06
	TOTAL				2026.06 X
	Add GST (multiplying factor 0.1405) on "X"				284.66
	TOTAL				2310.72 Y
	Add 15 % Contractor's profit and overheads on "Y"				346.61
	Total				2657.33 Z
	Add Cess @ 1% on "Z"				26.57
	Cost for 100 Nos				2683.90
	Cost of each				26.84
	Say				26.85

26.79.3 10 mm thick

Detail of cost for 100 nos

MATERIAL

0248	10 mm thick sim pad	each	100.00	25.00	2500.00
9977	Carriage of material LABOUR	L.S	5.00	2.00	10.00
0019	Fitter (Grade-1)	day	1.00	476.00	476.00
9999	Sundries	LS	10.00	2.00	20.00
	TOTAL				3006.00 W
	Add 1 % Water charges on "W"				30.06
	TOTAL				3036.06 X
	Add GST (multiplying factor 0.1405) on "X"				426.57
	TOTAL				3462.63 Y
	Add 15 % Contractor's profit and overheads on "Y"				519.39
	Total				3982.02 Z
	Add Cess @ 1% on "Z"				39.82
	Cost for 100 Nos				4021.84
	Cost of each				40.22
	Say				40.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
26.80	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members with M-60 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing /pump),curing etc. Complete as per directions of Engineer- in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.)				
26.80.1	Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shear keys / Joints of precast members.				
	Detail of cost for 250 kgs non shrink cementitious grout including 5 % wastage				
1251	M-60 grade cementitious grout (Non Shrink)	Kg	262.5	28.00	7350.00
2209	Carriage of cementitious material	tonne	0.25	94.34	23.58
9999	Grouting charges of Stirrer mixed cementitious grout, rubber, pipe and other accessories hire charges of plant, machinery including necessary fuel and transportation of site	L.S.	2250.00	2.00	4500.00
	LABOUR				
0022	Mason (for plaster of paris work) 1st class	day	1.00	476.00	476.00
0040	Masson (Average)	day	1.00	374.50	374.50
0045	Helper (Technician)	day	1.00	320.83	320.83
	TOTAL				13044.91 W
	Add 1 % Water charges on "W"				130.45
	TOTAL				13175.36 X
	Add GST (multiplying factor 0.1405) on "X"				1851.14
	TOTAL				15026.50 Y
	Add 15 % Contractor's profit and overheads on "Y"				2253.98
	Total				17280.48 Z
	Add Cess @ 1% on "Z"				172.80
	Cost for 250 Kgs				17453.28
	Cost of 1 Kg				69.81
	Say				69.80
26.81	Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100gm/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with building/ scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)				

Detail of cost for 300 sqm.

MATERIALS:

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8761	Scaffolding net made of high density Polyethylene UV stabilized having density 100gm/sqm	sqm	300.00	21.50	6450.00 P
9999	Carriage	L.S.	3.00	2.00	6.00
	Less Salvage value taken 25% on (P)				-1612.50
	LABOUR:				
0017	Beldar	day	1.00	320.83	320.83
9999	Sundries for tying the net	L.S.	10.00	2.00	20.00
	Total				5184.33 W
	Add 1 % Water charges on "W"				51.84
	TOTAL				5236.17 X
	Add GST (multiplying factor 0.1405) on "X"				735.68
	TOTAL				5971.86 Y
	Add 15 % Contractor's profit and overheads on "Y"				895.78
	Total				6867.63 Z
	Add Cess @ 1% on "Z"				68.68
	Cost of 300 Sqm.				6936.31
	Cost of 1 Sqm.				23.12
	Say				23.10