

**BOQ OF CONSTRUCTION OF COMPOSITE OFFICE BUILDING FOR TEHSILDAR, NAIB TEHSILDAR, SUB
TREASURY, SUB REGISTRAR AT RAMPUR NAIKIN DISTT. SIDHI(M.P.)**

Probable Amount of Contract (PAC) Rs.

				Total Civil Work	50449943	
				Total Electrical Work	12850480	
				Total (Civil+ Electrical) Work	63300423	
					633.00	lakh

BILL OF QUANTITIES (BOQ)

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
1	2.1		Surface dressing	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. in all kinds of soil.	100 Per Sq.m.	146.168	803.00	117373
2	2.6		Excavation soil	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means) All kinds of soil	cum	2051.06	147.00	301506
3	2.7		Excavation rock	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.				
		2.7.1	OR	Ordinary rock	Cum	260.23	287.00	74686
4	2.24		Filling available excavated earth	Filling available excavated earth (excluding hard rock/Ordinary 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.	Cum	1011.362	95.00	96079
5	1.1		Transportation by mechanical means	Transportation By Mechanical Transport including loading, unloading and stacking.				
		1.1.2	Earth	Earth				
				5 km	Cum	614.9	207.04	127309
				Earth (2 Km)		43.5	157.00	6830
6	2.25		Extra for additional lift	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				
		2.25.1	Soil	All kinds of soil.	cum	318.17	30.00	9545
		2.25.2	Rock	Ordinary or hard rock.	cum	210.23	53.00	11142
7	2.27		Under floor filling	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
		2.27.1	Hard muram hard copra	With hard muram having CBR >12 % at under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 20cm in thickness and dressing complete. (Note:- maximum thickness of this layer to be provided shall be 30cm)	cum	433.94	393.00	170538
8	2.27		Under floor filling	Supplying and filling in plinth under floors including watering ramming consolidating in layers not exceeding 20cm in depth and dressing complete.				
		2.27.2	Selected soil	Supplying and filing in plinth with soil (other then BC soil) having MDD not less than 1.85 t/m3 under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 15cm depth and dressing complete.	cum	598.748	331.00	198186

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
9	2.26		Under floor filling stone dust	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: - Maximum thickness of this layer shall be 20 cm.	cum	295	672.00	198240
10	2.39		Anti-termite pipe system	Providing and laying of permanent piping technology anti-termite treatment before flooring work by installing LLDP (Low linear density polyethylene) tube of 8 mm O.D. & 6.4 mm I.D.with inbuilt pressure compensation chip at every 30 cm interval in the tube, having working pressure of 2 kg/cm2 and release rate of 1.9 ltr/hour fixed by P-clips and nails. The LLDP pipe shall be installed at the entire periphery of the building and at internal network of building at a depth of 20 to 200 mm under floor at every 2 to 3 mtr. c/c distance (adjusted as per building layout) & Ends of loop pass through a PVC elbow of minimum 32mm ID at junction box of				
		2.39.1	Pipe system	Permanent piping system with Junction boxes	sqm	1300	113.00	146900
		2.39.2	Chemical injection	Anti-termite chemical injected area	sqm	1300	53.00	68900
11	2.35		Rough excavation banking/filling excavated earth	Earth work in rough excavation by any means and banking/filling excavated earth in layers not exceeding 20cm in depth, breaking clods, watering rolling each layer with 1/2 tonne roller or wooden or steel rammers etc. 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 bank and guide bank of filling up ground depression within campus, lead upto 50m and all lift. All kinds of soil.	cum	260	130.00	33800
12	4.1		C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
		4.1.2	With 40 mm metal	With 40mm nominal size graded stone aggregate.				
		4.1.2.2	M-10	M-10 Nominal (Mix -1 Cement : 3 sand : 6 graded stone aggregate)	cum	160.42	3,808.00	610879
13	4.1		C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
		4.1.1	With 20mm metal	With 20mm nominal size graded stone aggregate.				
		4.1.1.4	M-10	M-10 Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)	cum	138.91	3,890.00	540360
14	4.1		C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
		4.1.1	With 20mm metal	With 20mm nominal size graded stone aggregate.				
		4.1.1.4	M-10	M-10 Nominal (Mix-1 Cement : 3 sand : 6 graded stone aggregate)	cum	200	3,890.00	778000
15	4.3		Centering and shuttering	Centering and shuttering including strutting, propping etc. and removal of form work for :				
		4.3.1	Upto plinth	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.	Sqm	984.97	169.00	166460
16	5.1		RCC upto plinth	Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
		5.1.1	M-20	M-20 Grade Concrete	cum	444.4	6,153.00	2734393
17	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.1	Upto plinth	Foundations, footings, bases of columns, etc. for concrete upto plinth level	Sq.m.	1338.21	190.60	255063
18	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.2	Walls	Walls (any thickness) in cluding attached pilasters butter esses, plinth beams and string courses etc.				
		5.9.2.1	Upto plinth	Uptoplinthlevel.	sqm	1629.91	219.00	356950

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1	2	2	4	5	6	7	8	9
19	11.72		Chamfered edge cement concrete paver blocks over	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required colour strength, thickness pattern, surface texture (smooth/rough) and size/shape, conforming to 15658- 2006 IS marked made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/ laying of inter locking paver blocks into the 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 including locking edges in 0.30 mm with courtyards, porch with M 15 cement concrete in footpath, parks, lawns, drive ways or light traffic parking				
		11.72.2	60mm thick	60 mm thick C.C. paver block of M-35 grade	sqm	440	680.00	299200
20	11.73		Kerb stone M-25	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 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).	cum	13.56	6,097.00	82675
21	4.2		C.C. upto floor two level	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing :				
		4.2.1	With 20mm metal	With 20mm nominal size graded stone aggregate				
		4.2.1.4	M-10	M-10 Nominal Mix -1 Cement : 3 sand : 6 graded stone aggregate	Cum	1.15	4,134.00	4754
22	5.2		RCC in walls, columns, pillars etc	Reinforced cement concreterwork (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and upto floor two level excluding cost of centering, shuttering, finishing and reinforcement:				
		5.2.1	M-20	M-20 Grade Concrete	cum	357.57	6,231.00	2228019
23	5.3		RCC in beams, floors, staircases etc	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.				
		5.3.1	M-20	M-20 Grade Concrete	cum	612.5	6,541.00	4006363
24	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.6	Columns	Columns, P i l l a r s , Piers, Abutments, Posts and Struts.	sqm	1852.77	471.20	873025
25	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.5	Lintels, Beams and Centilevers	Lintels, beams, girders, bressumers and cantilevers	sqm	1638.79	356.00	583409
26	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.3	Suspended floors, roofs etc	Suspended floors, roofs, landings, balconies and access platform.	sqm	2379.01	439.60	1045813
27	5.9		Centering and Shuttering	Centering and shuttering in cluding strutting, propping etc. and removal of form for:				
		5.9.7	Staircase	Stairs, (excluding landings) except spiral- Staircases.	sqm	124.2	435.70	54114

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1	2	2	4	5	6	7	8	9
28	5.9		Centering and Shuttering	Centering and shuttering including strutting, propping etc. and removal of form for:				
		5.9.19	Weather shade and chajjas	Weather shade, Chajjas, corbels etc., including Edges.	sqm	212.56	534.20	113550
29	5.16		Reinforcement	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete .(Note:-1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge.2. No extra payment shall be done for overlaps and/or couplers.3.Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")				
		5.16 .6	TMT (FE 500D or more)	Thermo-Mechanically Treated bars.FE 500 D or more conforming to IS 1786	kg	179065.3	80.00	14325224
30	5.24		Plaster drip course/ groove	Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	RM	1262.4	18.50	23354
31	6.28		Precast Reinforced AAC roof slabs, lintels and chhajjas	Providing hoisting & fixing precast Autoclaved Aerated Concrete (AAC) reinforced roof slabs, lintels and chhajjas as per IS: 6073 -2006 grade D specifications (dry density, without steel, 550 kg/m3 to 650 kg/m3 and minimum compressive strength 3.5 N/mm2) Reinforcement shall be designed & spot welded as per ACI 523.4R-09 and shall have anti corrosive protective coating as per IS: 6441 (Part -4). The roof slabs shall have tongue and groove arrangement, jointed with polymer modified mortar, as per ASTM C 1660-09, groove provided with one bar of 10mm dia and filled with M20 grade cement concrete. Both ends of bar in groove shall be tied with bond beam of minimum 80 mm width and depth equal to slab/panel thickness running at center of load bearing wall/	cum	12.75	5,700.00	72675
32	6.26		Autoclaved Aerated Concrete (AAC) blocks masonry	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry, using AAC blocks (Size length 300, 400, 500, 600 mm Height 200, 250, 300 mm Width 100, 150, 200, 250 mm) conforming to IS 2185 PART 3, having compressive strength not less than 4 MPa (Grade II) in super structure, blocks jointed with approved block laying polymer modified adhesive mortar as per ASTM 1660- 09,applied in uniform thickness of 2 to 3 mm in horizontal and verticals joints using special trowel, polymer modified mortar having minimum compressive strength and minimum splitting tensile strength of not less than 5MPa and 0.34 MPa respectively as per ASTM international standard including raking out joints. The surface of masonry units (AAC-Block) should be slightly moist				
		6.26 .1	Polymer modified mortar	AAC Masonry in polymer modified mortar	cum	694.09206	5500	3817506
33	6.26		Autoclaved Aerated Concrete (AAC) blocks masonry	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry, using AAC blocks (Size length 300, 400, 500, 600 mm Height 200, 250, 300 mm Width 100, 150, 200, 250 mm) conforming to IS 2185 PART 3, having compressive strength not less than 4 MPa (Grade II) in super structure, blocks jointed with approved block laying polymer modified adhesive mortar as per ASTM 1660- 09,applied in uniform thickness of 2 to 3 mm in horizontal and verticals joints using special trowel, polymer modified mortar having minimum compressive strength and minimum splitting tensile strength of not less than 5MPa and 0.34 MPa respectively as per ASTM international standard including raking out joints. The surface of masonry units (AAC-Block) should be slightly moist				
		6.26 .1	Polymer modified mortar	AAC Masonry in polymer modified mortar	cum	19.9	5500	109450

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1	2	2	4	5	6	7	8	9
34	9.43		M.S. grills and windows	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved				
		9.43 .2	Fixed to openings /wooden frames	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	3814.5	128.00	488256
35	9.46		M.S. wire mesh	Providing and fixing fly proof galvanized M.S. wire gau				
		9.46 .2	With mild steel beading	With 12 mm mild steel U beading.	sqm	99.16	681.00	67528
36	9.65		S.S. sliding door	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and Screws etc. complete:				
		9.65.2	250 mm	250x16 mm	each	77	326.00	25102
37	9.66		S.S. tower bolt	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
		9.66.2	200 mm	200x10 mm	each	152	93.00	14136
38	9.68		S.S. door latches	Providing and fixing ISI marked stainless steel door latches with screws etc. complete :				
		9.68.2	250mm	250x20x6 mm	each	75	173.00	12975
39	9.69		S.S. handles	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :				
		9.69.1	125 mm	125 mm	each	154	60.00	9240
40	9.76		Stainless steel hanging type floor	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.	each	214	103.00	22042
41	9.169		Factory made solid wood plastic composite (WPC) doorframes	Providing and fixing factory made single extruded WPC(Wood Polymer Composite) solid door/window/ceosetry windows and other frames/chowkhat comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice .husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed S.S. screws having minimum density of 750 kg/m3 and screw withdrawal strength of 2200 N (Face) & 900 N (Edge), minimum compressive strength 58 N/mm2, modulus of elasticity 900 N/ mm2 and				
		9.169.1	75 mm X 50 mm	Single rebate (75 mm X 50 mm)	RM	85.6	459.00	39290
42	9.170		WPC flush door (plain)	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice .husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size				
		9.170.1	24 mm thick	24 mm thick WPC (Wood polymer composite) solid plain flush door shutter	sqm	29.82	2,250.00	67095
43	9.204		Flush door non decorative type, core of block board frame of finger jointed 1st class hard wood	Providing and fixing ISI marked factory made flush door shutters conforming to IS: 2202(Part-I) non decorative type, core of block board construction with kiln seasoned and chemically treated 2nd class hard wood battens (strips) and frame of kiln seasoned and chemically treated, finger jointed 1st class hard wood of width not less than 65mm for style, top rail, bottom rail and 125mm for lock rail. Block board shall be provided with well matched 3mm thick commercial 3ply veneering consisting of vertical grains, cross bands and commercial grade face veneers on both outer faces of shutters including kiln seasoned and chemically treated, finger jointed 2nd class teak wood external lipping (battens) fixed in factory by using				

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1	2	2	4	5	6	7	8	9
		9.204.2	30mm	30mm thick including 3 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary screws.	sqm	140.28	1,772.00	248576
44	10.12		Pressed steel door frames	Providing and fixing pressed steel door frames made of 1.6 mm thick steel profile conforming to IS: 4351 manufactured from commercial mild steel sheet including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including 2.5mm thick M.S. pressed butt hinges, with mortar guards, lock strike-plate and shock absorbers as specified filling the frame with Cement Concrete 1:3:6 at site before fixing (cost of concrete to be paid separately) fixing with adjustable lugs (200 mm long & 1.0 mm thick) and applying a coat of approved steel primer after pre-treatment of the				
		10.12.2	Profile C size 100mmx50mm single rebate	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
		10.12.2.1	Fixing with adjustable lugs	Fixing with adjustable lugs with split end tail to each jamb.	meter	333.2	431.00	143609
45	10.13		M.S. tubular frames for doors, windows and ventilators	Providing and fixing M.S. Tubular frames and shutters or frames only or shutters only for doors, windows, ventilators and cupboard with any sections, made of 1.60 mm or 1.25 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size as per drawing, including fixing of necessary butt hinges, stays and screws and applying a priming coat of approved steel primer excluding cost of all fittings such as handles, tower bolts, sliding door bolts, latches etc. and panels.				
		10.13.1	Fixing with cement concrete block	Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of Cement Concrete 1:3:6 (1 Cement : 3 sand : 6 graded stone aggregate 20 mm nominal size).	kg	68.85	116.20	8000
46	10.17		M.S. box for ceiling fan	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm 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 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 16mm dia M.S. bar bent to shape as per standard drawing.	each	97	148.00	14356
47	10.22		Welded built up steel sections	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.				
		10.22.2	Frame, ladder, railing	In gratings, frames, guard bar, ladder,railings, brackets, gates and similar works.	kg	4464.31	105.00	468753
48	10.23		Hand rail	In gratings, frames, guard bar, ladder,railings, brackets, gates and similar works.				
		10.23.1	M.S. tube.	M.S. tube.	kg	425.43	117.00	49775
49	10.25		Stainless steel railing	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 and 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.	kg	361.76	582.00	210544

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1	2	2	4	5	6	7	8	9
50	11.22		Marble& granite work for kitchen platforms, vanity counters, window sills , facias	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give				
		11.22.1	Marble granite	Raj Nagar plain/White Marble/Udaipur Green Marble /Zebra black	sqm	111.09	1,797.00	199629
51	11.22		Marble& granite work for kitchen platforms, vanity counters, window sills , facias	Providing and fixing 18mm 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 of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give				
		11.22.3	Granite coarse grained	Granite coarse grained light black/ light red/white with crystal of other colours and various patterns	Sqm	19.2	2,113.00	40570
52	11.64		Stone slab in urinal partitions	Providing and fixing stone slab table rubbed on both faces edges rounded and polished of size as required 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 sand: 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
		11.64.	Granite Stone	Granite Stone of approved shade.	sqm	5.76	3,422.00	19711
53	11.34		Granite work in riser steps, skirting, dado and pillars	Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.	sqm	33.96	3,413.00	115905
54	11.36		Kota stone flooring	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 sand) 25 mm thick.(Area of slab to be over 0.25 sqm)	sqm	782.78	1,174.00	918984
55	11.38		Kota stone in risers, skirting, dado and pillars	Kota stone slabs 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.				
		11.38.1	10-12 mm thick	10-12 mm thick	sqm	256.62	1,177.00	302042
56	11.4		Edge moulding of stone work	Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
		11.40.		Marbel work.	meter	0	164	
		11.40.		Granite work.	meter	432.3	269.00	116289
		11.40.		Granite work.	meter	22	269.00	5918
57	11.41		Extra for providing opening in marble/granite/ st one work	Extra for providing opening of required size and shape for wash basins/ kitchen sink in kitchen platform, vanity counters 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.	each	2	167.00	334
58	11.51		Rectified ceramic floor tiles	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (having thickness 9 to 10mm) of 1st quality conforming to IS : 15622 of approved make in all colours white, ivory, grey, fume red brown laid on 20mm thick cement mortar 1:4 (1 Cement : 4 sand) including grouting the joints with white cement and matching pigments etc., complete.	sqm	66.36	644.00	42736

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
59	11.52		Rectified ceramic wall tiles	Providing and laying rectified Glazed Ceramic wall tiles 300x450 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours white, ivory, grey, fume red brown laid on 12 mm thick cement mortar 1:3 (1 Cement : 3 sand) including grouting the joints with white cement and matching pigments etc., complete.	sqm	193.23	698.00	134875
60	11.53		Antiskid floor tiles (heavy duty)	Providing and laying Antiskid floor tiles of any sizes, 12 mm thickness 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 sand) including grouting the joints with white cement with matching pigments etc., complete.	sqm	162.22	880.00	142754
61	11.78		Vitrified floor tiles multi charged	Providing and laying vitrified floor tiles Multi/Double charged (Minimum top layer thickness 2.0mm) Neno Polished self design, in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours & shades, quality/ premium quality in flooring laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete				
		11.78.1	Light shade	In light shade glossy/ rustic /stain finished				
		11.78.1.1	600X600	Size 600X600 mm thickness 9-10 mm	sqm	312.5	1,104.00	345000
62	11.79		Vitrified floor tiles multi charged tiles in skirting	Providing and laying vitrified floor tiles Multi/Double charged (Minimum top layer thickness 2.0mm) Neno Polished self design, in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours & shades, 1st quality/ premium quality in skirting laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete				
		11.79.1	Light shade	In light shade glossy/ rustic /stain finished				
		11.79.1.1	600X600	(a) Size 600X600 mm thickness 9-10 mm	sqm	31.25	1,093.00	34156
63	12.26		Gola	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 sand) as per standard design : In 75x75mm deep chase	meter	295.4	99.00	29245
64	13.1		12 mm cement plaster	12 mm cement plaster of mix :				
		13.1.2	1:6	1:6 (1 cement : 6 sand)	sqm	7443.36	160.00	1190938
65	13.2		15 mm cement plaster	15 mm cement plaster on the rough side of single or half brick wall of mix				
		13.2.2	1:6	1:6 (1 cement : 6 sand)	sqm	1541.59	168.00	258987
66	13.4		12 mm cement plaster finished with a floating coat	12 mm cement plaster finished with a floating coat of neat cement of mix :				
		13.4.2	1:4	1:4 (1 cement : 4 sand)	sqm	177.24	203.00	35980
67	13.8		6 mm cement plaster	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)	sqm	2861.88	144.00	412111
68	13.27		Mesh in plaster	Providing and fixing mesh in vertical and horizontal junction of RCC and brick/AAC work including scaffolding and all lead and lift etc. complete				
		13.27.2	Fibre mesh in Plaster	Providing and fixing fibre mesh of 145 GSM weight in required width with cement mortar before plastering upto 10m height.	Sqm	265.2	45.00	11934
69	13.41		White cement based putty	Providing and applying white cement based putty of average thickness 1 mm, of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.	sqm	7302.39	74.00	540377
70	13.67		Primers	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
		13.67.3	On wall	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	sqm	11709.6	24.00	281030

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
71	13.47		Acrylic distemper	Distemping by any mechanical or manual means 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.				
		13.47.2	Two coat	Two coats.	sqm	2446.12	32.00	78276
72	13.51		Textured exterior paint	Finishing walls by only mechanical or manual means with textured exterior paint of required shade: 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.	sqm	326.9	132.00	43151
73	13.49		Acrylic emulsion paint	Wall painting by any mechanical or manual means 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.	sqm	7302.39	90.00	657215
74	13.53		Premium acrylic smooth exterior paint (premium exterior)	Finishing walls by any mechanical or manual means with Premium Acrylic Smooth exterior paint (Premium exterior) of required shade including all scaffolding. New work (Two or more coat applied @1.67ltr/10sqm over and including one coat undiluted exterior waterproofing coating @ 2.39 litre/10 sqm with crack bridging ability of upto 0.5mm on horizontal surfaces with an elongation of 150% and water proofing of upto 3 bars on vertical surface)	sqm	1370.68	130.00	178188
75	13.64		Synthetic enamel paint on new work	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	sqm	201.49	53.00	10679
76	13.67		Primers	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
		13.67.2	On steel/iron	With ready mixed red oxide zinc chromatic on steel/ iron works having VOC content less than 250 grams/litre.	sqm	223.69	24.00	5369
77	21.1		Aluminium work for doors, windows, ventilators & partitions	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-				
		21.1.1	Fixed	For fixed portion.				
78	A	21.1.1.2	Powder coated	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	824.95	416.00	343179
79	B	21.1.2	Openable	For shutters of doors, windows and 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).				
		21.1.2.2	Powder coated	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	942.8	484.00	456315
80	21.3		Glazing in aluminium door, window, ventilator shutters and partitions	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	4.0 mm	With float glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	sqm	203.4	774.00	157432
81	21.4		Extra for froasted glass	Add extra for providing and fixing froasted glass instead of float glass				
		21.4.1	4.0 mm	With glass panes of 4.0 mm thickness (weight not less than 10 kg/sqm)	sqm	30.3	259.00	7848

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
82	21.9		Silicon sealant	Filling the gap in between aluminium frame and 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. Upto 5 mm depth and 5 mm width	metre	683.4	53.00	36220
83	21.19		Heat /light control film reflective one way type to plain glass	Providing and fixing 50 micron thick reflective one way type heat /light control film to window/door glazing with complete accessories as per direction of Engineer-in- charge of approved brand and make.	sqm	88.79	448.00	39778
84	22.5		Water proofing treatment two course cement mortar	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	sqm	35.88	207.00	7427
85	22.6		Water proofing treatment Fibre glass cloth and cement slurry	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/sqm mixed 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 sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The	sqm	79.48	338.00	26864
86	22.14		Roof grading	Grading roof for receiving water proofing treatment				
		22.14.1	C.C. 1:2:4	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)	cum	58.64	6,569.00	385206
87	9.13		Laminated sheet	Providing and 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.	Sqm			
		9.134.	1.0 mm	1.0 mm thick.	sqm	201.6	691.00	139306
88	5.31		Extra for R.C.C. above floor two level	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)	cum	88.97	62.31	5544
			Roof Beam			175.94	65.41	11508
						6.72	186.93	1256
						19.25	196.23	3777
						0	117.30	
						0	123.10	
89	5.17		Reinforcement above floor two level	Add extra for providing reinforcement above Floor two level for every additional floor or part thereof.	kg	34438.3	0.20	6888
						0	0.40	
						3376.1	0.60	2026
90	6.27		Extra for AAC work above floor two level	Extra for AAC masonry work in superstructure above floor two level for each additional floor or part thereof	cum	341.81	55.00	18800
						58.54	165.00	9659

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
91	22.3		Water proofing treatment four course blown bitumen treatment	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : a) 1st 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. b) 11nd course of 20mm cement plaster 1:3 (1 cement: 3 sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. c) 111rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of	Sqm	35.88	440.00	15787
92	4.26		RCC for sunken floor	Providing and laying cement concrete in Sunken floors of WC, Toilets, Wash Areas etc with 1:5:10 (1 cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size). , excluding the cost of centering and shuttering.	cum	16.23	3140.00	50962
93	22.33		Waterproofing with Integral crystalline slurry of hydrophilic nature	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 powder: 2 parts water by weight) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water by weight) for horizontal surfaces and applying the same from positive (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				
		22.33.1	Vertical surface	For vertical surface two coats @ 0.70 kg per sqm	sqm	95.61	459.00	43885
		22.33.2	Horizontal surface	For horizontal surface one coat @1.10 kg per sqm.	sqm	1093.39	390.00	426422
94	4.2		C.C. upto floor two level	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. upto floor two level, excluding the cost of centering, shuttering and finishing :				
		4.2.1	With 20mm metal	With 20mm nominal size graded stone aggregate				
		4.2.1.3	M-15	M 15 – Grade concrete	cum	17.16	4714.00	80892
95	4.3		Centering and shuttering	Centering and shuttering including strutting, propping etc. and removal of form work for :				
		4.3.3	Above plinth in columns	Above plinth: Columns, pillars, posts and struts.	Sqm	153.8	356.00	54753
96	4.14		Extra for C.C. work in superstructure	Extra for concrete work in superstructure above floor two level for each floors or part thereof	cum	17.16	47.14	809
97	12.15		Precoated G.I. profile sheets	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 gsm 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 while 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 55mm) 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.	sqm	182.9	652.00	119251

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
98	12.16		Precoated G.S. sheet roofing	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm 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 using self-drilling/ self-tapping screws complete :				
		12.16.1	Ridge	Ridges plain (500 - 600mm).	meter	4.5	320.00	1440
		12.16.2	Flashing	Flashings/ Aprons.(Upto 600 mm)	meter	48.4	284.00	13746
		12.16.3	North light	North light curves.	meter	10.35	341.00	3529
		12.16.4	Barge board	Barge board (Upto 300 mm)	meter	55.66	274.00	15251
		12.16.5	Crimp curve	Crimp curve	sqm	14.59	315.00	4596
		12.16.6	Gutter	Gutter. (600 mm over all girth)	meter	9	781.00	7029
99	10.14		Steel work in built up tubular trusses/frame	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work 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.				
		10.14.2	Hot finished seamless tubes	Hot finished seamless type tubes	kg	2199	123.00	270477
100	10.15		M.S.structural steel	Design, supply, fabrication, taransportion and erection of structural steel/mild steel built-up sections for steel building in column, rafter, truss, floor joist, wind bracings, tie beam, foundation bolts, fasteners etc. Including two coats of Epoxy paint and one coat of primer. These structural steel/built-up sections shall be manufactured using advanced CNC Plasma/Oxy Acetylene cutter and H Beam Welding line. Welding shall be in full depth on both sides of the plate adopting relevant I.S Code.	Kg	1089	132.00	143748
Internal Water Supply & Plumbing								
101	17.1		W.C. Indian type with flushing cistern	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, UPVC 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 :				
		17.1.2	Size 580x480mm	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests.	each	10	7031.00	70310
102	25.2		European Pedestal	Providing and fixing white vitreous china pedestal type Anti germ Fluoro-Polymer Coated Water Closet with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propeline) made 80 mm thick concealed flushing cistern, flushing capacity 3 litre/6 litre, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.				
		25.2.2	W. C. pan size 350 x 480 x 390 mm	Anti-germ Fluoro-Polymer Coated Water Closet European type W. C. pan size 350 x 480 x 390 mm with solid poly propelyne made soft closing seat cover (Premium Range)		4	8742.00	34968
103	17.11		Wash basin	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 :				
		17.11.2	630x450 mm flat back single pillar cock (china clay)	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	each	12	2187.00	26244
104	17.14		Kitchen sink (stainless Steel)	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 :				
		17.14.2	Without drain board	Kitchen sink without drain board				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		17.14.2.1	Depth 200mm	610x510 mm bowl depth 200 mm.	each	1	4583.00	4583
105	17.27		Urinal flat back (half stall)	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm.	each	8	2243.00	17944
106	17.28		Squatting plate urinal	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	4	1564.00	6256
107	17.32		soil, waste and vent pipes	Providing and fixing soil, waste and vent pipes:				
		17.32.3	CI (Hubless)	Hubless Centrifugally cast (spun) iron pipe epoxy coated in side & out side including complete coupling assembly (EPDM rubber gasket stainless steel claim and external metallic/ protective shield as per IS:15905)				
		17.32.3.1	75 mm dia	75 mm dia with wall thickness of 3.5 mm	metre	150	773.00	115950
		17.32.3.2	100 mm dia	100 mm dia with wall thickness of 3.5mm	metre	120	910.00	109200
108	17.35		Bend (with lid)	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
		17.35.2	100 mm dia	100 mm dia				
		17.35.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905 minimum wall thickness 3 mm	each	15	450.00	6750
		17.35.3	75mm dia	75 mm dia				
		17.35.3.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905 minimum wall thickness 3 mm	each	4	370.00	1480
109	17.36		end (Plain)	Providing and fixing plain bend of required degree.				
		17.36.2	100 mm dia	100 mm dia				
		17.36.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905 minimum wall thickness 3 mm	each	8	344.00	2752
		17.36.3	75 mm dia	75 mm dia				
		17.36.3.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905 minimum wall thickness 3 mm	each	2	242.00	484
110	17.39		Double equal plain junction	Providing and fixing double equal plain junction of required degree.				
		17.39.2	100mm dia	100x100x100x100mm				
		17.39.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	8	600.00	4800
		17.39.3	75mm dia	75x75x75x75 mm				
		17.39.3.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	362.00	1448
111	17.41		Single equal plain junction	Providing and fixing single equal plain junction of required degree :				
		17.41.2	100mm	100x100x100 mm				
		17.41.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	450.00	1800
		17.41.3	75mm	75x75x75 mm				
		17.41.3.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	290.00	1160
112	17.43		Double unequal plain junction of cast iron (100X75mm dia)	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm				
		17.43.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	535.00	2140
113	17.45		Single unequal plain junction (100X75mm)	Providing and fixing single unequal plain junction of required degree : 100x100x75 mm				
		17.45.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	490.00	1960
114	17.46		Double equal plain invert branch	Providing and fixing double equal plain invert branch of required degree:				
		17.46.1	100mm	100x100x100x100 mm				
		17.46.1.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	8	803.00	6424
115	17.47		Single equal plain invert branch	Providing and fixing single equal plain invert branch of required degree:				
		17.47.1	100mm	100x100x100 mm				
		17.47.1.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	5	512.00	2560
		17.47.2	75mm	75x75x75 mm				
		17.47.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	5	345.00	1725
116	17.49		Unequal plain invert branch	Providing and fixing single unequal plain invert branch of required degree : 100x100x75 mm				
		17.49.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905 minimum wall thickness	each	5	575.00	2875

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
117	17.53		Terminal guard	Providing and fixing terminal guard:				
		17.53.2	100 mm	100 mm				
		17.53.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	4	320.00	1280
		17.53.3	75 mm	75 mm				
		17.53.3.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	2	250.00	500
118	17.57		Trap of self cleansing design	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 :				
		17.57.1	100X100mm	100 mm inlet and 100 mm outlet				
		17.57.1.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	15	310.00	4650
		17.57.2	100X75mm	100 mm inlet and 75 mm outlet				
		17.57.2.3	Hubless C.I.	Hubless cast(spun) iron as per IS- 15905	each	10	260.00	2600
119	17.64		P.V.C. waste pipe for sink or wash basin	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
		17.64.2	Flexible	Flexible pipe (only in residential & complexes)				
		17.64.2.1	32 mm	32 mm dia	each	12	87.00	1044
120	17.65		Sand cast Iron grating for gully trap.	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	30	43.00	1290
121	17.66		Mosquito proof coupling	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	each	2	44.00	88
122	17.68		Mirror (Plastic Frame)	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shape with 6 mm thick hard board backing				
		17.68.2	453x357mm	Rectangular shape 453x357mm	sqm	6	642.00	3852
123	17.69		Glass shelf	Providing and fixing glass shelf with edges round of 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.	sqm	1.26	474.00	597
124	17.70		Toilet paper holder	Providing and fixing toilet paper holder:				
		17.70.1	C.P. brass	C.P. brass	each	4	340.00	1360
125	17.71		Waste coupling CP brass	Providing and fixing CP brass waste coupling of approved quality and make for sink and wash basin.				
		17.71.2	38 mm dia	Waste coupling 38mm of 83mm length and 77mm breadth	each	10	348.00	3480
126	17.72		Bottle trap CP brass	Providing and fixing CP brass bottle trap of approved quality and make for sink and wash basin.	each	4	853.00	3412
127	17.73		Towel rail CP brass	Providing and fixing CP brass towel rail of approved quality and make		0		
		17.73.2	450mm	450x20mm	each	4	836.00	3344
128	17.74		Towel ring CP brass	Providing and fixing CP brass towel ring of approved quality and make 200mm dia ring	each	4	679.00	2716
129	17.75		Soap dish CP brass	Providing and fixing CP brass soap dish of approved quality and make	each	4	422.00	1688
130	17.76		Urinal spreader CP brass	Providing and fixing CP brass Urinal spreader of approved quality and make	each	8	304.00	2432
131	17.77		Soap container C.P. brass	Providing and fixing C.P. brass soap container 109 mm wide, 125 high and 112 mm distance from wall of standard shape with bracket of the same material with all fittings etc. of approved quality and conforming to IS: specification.	each	6	1175.00	7050
132	17.78		Grating C.P. brass	Providing and fixing C.P. Brass grating of approved quality and make conforming to IS: specification.				
		17.78.1	100 mm dia	100 mm dia.	each	15	74.00	1110
133	17.79		Waste Coupling PTMT	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
		17.79.2	38mm dia	Waste coupling 38mm dia of 83mm length and 77mm breadth, weighing not less than 60gms.	each	2	131.00	262
134	17.8		Bottle Trap PTMT	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
		17.80.2	38mm dia	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighting not less than 263gms.	each	2	522.00	1044

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
135	17.81		Liquid soap container PTMT	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm 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.	each	2	217.00	434
136	17.83		Towel rail PTMT	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.				
		17.83.1	450mm	450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.	each	0	412.00	
137	17.84		Shelf PTMT	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.	each	0	511.00	
138	17.85		Urinal spreader PTMT	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes. Weighing not less than 60 gms.	each	0	176.00	
139	17.86		Urinal cock PTMT	Providing and fixing PTMT urinal cock of approved quality and colour. 15 mm nominal bore, 80mm long. 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms.	each	0	144.00	
140	17.87		Soap Dish Holder PTMT	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.	each	0	119.00	
141	18.6		CPVC pipes internal work	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
		18.6.1.1	15 mm	15 mm nominal outer dia .Pipes.	metre	80	129.00	10320
		18.6.1.2	20 mm	20 mm nominal outer dia .Pipes.	metre	40	153.00	6120
		18.6.1.3	25 mm	25 mm nominal outer dia .Pipes.	metre	40	177.00	7080
		18.6.1.4	32 mm	32 mm nominal outer dia .Pipes.	metre	20	254.00	5080
		18.6.1.5	40 mm	40 mm nominal outer dia .Pipes.	metre	15	354.00	5310
		18.6.1.6	50 mm	50 mm nominal outer dia .Pipes.	metre	10	528.00	5280
142	18.6		CPVC pipes internal work	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings				
		18.6.2.1	15 mm	15 mm nominal outer dia .Pipes.	metre	50	207.00	10350
		18.6.2.2	20 mm	20 mm nominal outer dia .Pipes.	metre	200	234.00	46800
		18.6.2.3	25 mm	25 mm nominal outer dia .Pipes.	metre	120	288.00	34560
		18.6.2.4	32 mm	32 mm nominal outer dia .Pipes.	metre	30	360.00	10800
143	18.7		CPVC pipes for external work	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge.External Work				
		18.7.3	25 mm	25 mm nominal outer dia .Pipes.	metre	80	185.00	14800
		18.7.4	32 mm	32 mm nominal outer dia .Pipes.	metre	60	238.00	14280
		18.7.5	40 mm	40 mm nominal outer dia .Pipes.	metre	30	324.00	9720
		18.7.6	50 mm	50 mm nominal outer dia .Pipes.	metre	20	498.00	9960
		18.7.7	62.50 mm	62.50 mm nominal inner dia Pipes.	metre	15	1429.00	21435
		18.7.8	75 mm	75 mm nominal inner dia .Pipes.	metre	15	2018.00	30270
144	18.12		Gun metal gate valve	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
		18.12.1	With CI wheel	With C.I. wheel of approved quality (screwed end)				
		18.12.1.2	32 mm dia	32 mm nominal bore.	each	2	558.00	1116
		18.12.1.3	40 mm dia	40 mm nominal bore	each	2	677.00	1354
		18.12.1.4	50 mm dia	50 mm nominal bore	each	2	976.00	1952

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
145	18.14		Ball float valve brass	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
		18.14.1	15 mm dia	15 mm nominal bore	each	2	316.00	632
		18.14.2	20 mm dia	20 mm nominal bore	each	2	431.00	862
		18.14.3	25 mm dia	25 mm nominal bore	each	2	499.00	998
146	18.15		Gun metal non-return valve	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
		18.15.1	25 mmdia	25 mm nominal bore				
		18.15.1.1	Horizontal	Horizontal	each	4	462.00	1848
		18.15.1.2	Vertical	Vertical	each	4	474.00	1896
		18.15.2	32 mmdia	32 mm nominal bore				
		18.15.2.1	Horizontal	Horizontal	each	4	587.00	2348
		18.15.2.2	Vertical	Vertical	each	4	715.00	2860
		18.15.3	40 mmdia	40 mm nominal bore				
		18.15.3.1	Horizontal	Horizontal	each	4	746.00	2984
		18.15.3.2	Vertical	Vertical	each	4	990.00	3960
		18.15.4	50 mmdia	50 mm nominal bore				
		18.15.4.1	Horizontal	Horizontal	each	4	1138.00	4552
		18.15.4.2	Vertical	Vertical	each	4	1353.00	5412
147	18.16		Brass ferrule	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
		18.16.2	20 mm dia	20 mm nominal bore	each	2	285.00	570
148	18.17		Uplasticised PVC connection	Providing and fixing uplasticised PVC connection pipe with brass unions :				
		18.17.2	45 cm length	45 cm length				
		18.17.2.1	15 mm dia	15 mm nominal bore	each	40	149.00	5960
149	18.26		Polyethylene water storage tank	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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	per litre	8000	7.00	56000
150	18.31		C.P. brass bib cock 15 mm dia	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.	each	15	840.00	12600
151	18.32		C.P. brass long nose bib cock	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gm, 15 mm nominal bore.	each	5	1258.00	6290
152	18.33		C.P. brass long body bib cock	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gm, 15 mm nominal bore	each	5	1272.00	6360
153	18.34		C.P. brass stop cock concealed	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.	each	10	1155.00	11550
154	18.35		C.P. brass angle valve for basin	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:893115 mm nominal bore	each	5	714.00	3570
155	18.37		C.P. brass pillar cock	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS: specification. 15 mm nominal bore 125 mm long foam flow.	each	10	1188.00	11880
156	18.43		C.P. brass shower rose	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
		18.43.2	150 mmdia	150 mm diameter	each		922.00	
157	18.44		PTMT bib cock 15mm dia	Providing and fixing PTMT bib cock of approved quality and colour 15mm nominal bore.				
		18.44.4	90mm long	90mm long weighing not less than 93 gm	each	4	237.00	948
158	18.45		PTMT stop cock	Providing and fixing PTMT stop cock of approved quality and colour.				
		18.45.1	15mmdia	15 mm nominal bore, 86mm long. Weighing not less than 88 gms.	each	4	173.00	692
		18.45.2	20mmdia	20mm nominal bore, 89mm long. Weighing not less than 88 gms.	each	4	213.00	852
159	18.48		PTMT grating	Providing and fixing PTMT grating of approved quality and colour.				
		18.48.1	Circular	Circular type.				
		18.48.1.1	100 mmdia	100 mm nominal dia.	each	5	55.00	275

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
160	18.56		Cutting holes in walls	Cutting holes upto 30x30 cm in walls including making good the same : With common burnt clay bricks of 25 kg /sqcmor flyash bricks of 50 kg/cm2compressive strength.	each	15	154.00	2310
161	18.57		Cutting holes R.C.C. floors and roofs	Cutting holes upto 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 sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	each	15	129.00	1935
162	18.61		CP jet assembly	Providing and fixing CP jet assembly to including connection etc complete.	each	4	375.00	1500
163	18.64		C.P. brass two way bib cock	Providing and fixing C.P. brass two way bib cock with wall flange of approved quality conforming to IS standards, 15 mm nominal bore	each	4		0
164	18.65		C.P. brass two way angle cock	Providing and fixing C.P. brass two way angle cock with wall flange of approved quality conforming to IS standards, 15 mm nominal bore	each	4		0
165	19.7		S.W. gully trap	Providing and fixing square- mouth S.W. gully trap class SP1 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 :				
		19.7.1	100X100mm	100x100 mm size P type				
		19.7.1.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	5	1668.00	8340
		19.7.2	150 x 100	150 x 100 mm size P type.				
		19.7.2.2	Sewer bricks	With sewer bricks conforming to IS : 4885	each	5	1707.00	8535
166	19.9		Rectangular manhole	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand :4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement :2 sand :4 graded stone aggregate 20mm nominal size)inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design				
		19.9.1	90X80 cm	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) :				
		19.9.1.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	2	7747.00	15494
		19.9.2	120x90 cm	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) :				
		19.9.2.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	2	17402.00	34804
167	19.27		Road gully chamber 50x45x60cm	Constructing brick masonry road gully chamber 50x45x60cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design :				
		19.27.2	Fly ash bricks	With fly ash bricks 100 key/cm2 strangth	each	2	4900.00	9800
168	19.29		Road gully chamber 110x50x77.5cm	Constructing brick masonry road gully chamber 110x50x77.5cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
		19.29.2	Fly ash bricks	With fly ash bricks 100 kg/cm2 strength	each	2	6485.00	12970

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
169	19.41		FRP/GRP composite manhole cover size 450X600mm	Supplying and fixing of FRP/GRP composite manhole cover with frame of clear opening size 450X600mm rectangular having weight of (complete unit) (weight of frame 1.84kg + weight of cover 14.2kg ± 10%) (LD/2.5MT) having load bearing capacity (Point load 2.5MT) as per testing code BSEN 124:1994. having lifting arrangement should have an insertion of 5mm double sealed closed key hole and high strength plastic alloy/stainless steel socketed arrangement.	each	2	3951.00	7902
170	2.9		Excavation trenches soil up to 1.5 depth	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 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 : (No extra lift is payable if work is done by mechanical means) in all kinds of soil				
		2.9.1	<80mm dia	Pipes, cables etc., not exceeding 80 mm dia.	metre			
		2.9.2	>80mm dia/ <300mm dia	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	85	156.00	13260
171	25.79		Grab bar	Providing and fixing in position best Indian, 692mm long, satin finish C. P. Brass grab bar made of 304 grade ss i/c all nuts and screw (0.3 micron chrome and 10 micron nickel plated). (Premium Range)	each	10	7413.00	74130
172	25.80		Grab bar with left/right	Providing and fixing in position best Indian, satin finish, C. P. Brass grab bar with left/right 90 degree angle, made of 304 grade ss i/c all nuts and screws. (0.3 micron chrome and 10 micron nickel plated). (Premium Range)	each	10	9504.00	95040
173	26.28		ABC Power type fire extinguishers	Providing and fixing of ABC Power type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube 30 cm long high pressure discharge hose, discharge nozzle, suspension bracket. Conforming to IS: 15683 finished externally with red enamel paint fixed to wall with brackets complete with internal charge.				
		26.28.5	9.0 kg	Capacity 9.0 kg	each	12	5,493.00	65916
174	26.27		Carbon-di-oxide type fire extinguishers	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating gauge internal discharge tube 30 cm long high pressure discharge hose, discharge nozzle, suspension bracket conforming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.				
		26.27.3	4.5 kg	Capacity 4.5 kg	each	8	11,351.00	90808
175	26.29		Portable Automatic Fire Prevention Apparatus	Providing and fixing of Portable (FCO) Automatic Fire Prevention Apparatus very high quality bio degradable, ozone friendly UL (Underwriters Laboratories) listed, built in HDPE (High-density polyethylene) container to automatically extinguish fire when comes in contact with fire light in weight, compact in size extremely easy to use ABC powder type with automatic and manual operated CE certified with latest EN 1568-3:2008 & EN 1568-4:2008. The product shall be cover 5 years warranty as per guideline.				
		26.29.2	1.5 kg weight	1.5 Kg. weight Automatic Fire Extinguisher.	nos	6	7,486.00	44916
176	12.60		False ceiling tiles on clip in/swing down metal ceiling system	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20mm made of 0.5mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300mm				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		12.60.2	G.I.metal tiles 20% perforated	GI Metal Ceiling Clip in /swing down plain Beveled edge global white color tiles of size 600x600 and 0.5mm thick with 25mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8mm 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.	sqm	312.5	1,628.00	508750
177	27.7		Name plate computerized writing on ACP fixing with stud and screws	Providing and fixing Aluminum composite panels Silver colour with matte finish, 3mm thick, (0.25mm 2.5mm and 0.25mm) sheet for name plate including writing with computerized vinayle sheet letters of required size including fixing at required placed with studs, screws and rawl plugs etc. compete as per direction of Engineer-in-Charge.	sqm	7.43	6,180.00	45917
178	28		S.S letters	Providing and fixing stainless steel English (Capital) and Hindi letters in standard pattern bellow type made with 1.20 mm thick stainless steel (ASI Grade- 304) Depth of letter shall not be less than 30mm and rate includes welding/soldering of joints polishing, buffing and fixing on the wall, plate and beam surface at any height with necessary nut and bolts/fastener wherever is required complete as per direction of Engineer-in-Charge.	per letter per cm height	200	75.00	15000
179	12.32		Unplasticised rigid PVC pipes	Providing and fixing on wall face Rigid Unplasticised rigid PVC (upvc) Single socketed 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.				
		12.32.1	75 mm	75 mm diameter (minimum wall thickness 1.8mm)	metre	70	136.00	9520
180	12.32.2	12.32.2	110 mm	110 mm diameter (minimum wall thickness 2.2mm)	metre	205.2	238.00	48838
181	12.33		Unplasticised - UPVC fittings	Providing and fixing on wall face Unplasticised - UPVC 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.				
		12.33.1	Coupler	Coupler				
		12.33.1.1	75 mm	75 mm (minimum wall thickness 1.8mm)	each	50	67.00	3350
		12.33.1.2	110 mm	110 mm (minimum wall thickness 2.2mm)	each	128	102.00	13056
		12.33.3	With door	Single tee with door				
		12.33.3.1	75 mm	75x75x75 mm (minimum wall thickness 1.8mm)	each	2	106.00	212
		12.33.3.2	110 mm	110x110x110 mm (minimum wall thickness 2.2mm)	each	18	176.00	3168
		12.33.5	Bend	Bend 87.5°				
		12.33.5.1	75 mm	75 mm bend (minimum wall thickness 1.8mm)	each	2	78.00	156
		12.33.5.2	110 mm	110 mm bend (minimum wall thickness 2.2mm)	each	18	112.00	2016
182	12.34		UPVC pipe clips	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.				
		12.34.1	75 mm	75 mm (minimum wall thickness 1.8mm)	each	0	97.00	
		12.34.2	110 mm	110 mm (minimum wall thickness 2.2mm)	each	0	114.00	
183	12.36		PTMT grating to rain water pipes	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.	each	10	95.00	950
184	17.58		Unplasticised rigid PVC soil and waste pipes	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm. (minimum wall thickness 3.2mm)				
		17.58.2	110mm dia	110 mm diameter	meater	300	238.00	71400

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
185	19.29		Road gully chamber 110x50x77.5cm	Constructing brick masonry road gully chamber 110x50x77.5cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
		19.29.2	Fly ash bricks	With fly ash bricks 100 kg/cm2 strength	each	10	6,485.00	64850
186	6.7		Brick work fly ash bricks insuper structure	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :				
		6.7.3	50 kg /cm2	Having 50 kg / cm2 average compressive strength.				
		6.7.3.2	CM 1:6	Cement mortar 1:6 (1 cement : 6 sand)	cum	29.65	4,936.00	146352
187	13.2		15 mm cement plaster	15 mm cement plaster on the rough side of single or half brick wall of mix				
		13.2.2	1:6	1:6 (1 cement : 6 sand)	sqm	22.08	168.00	3709
188	16.11		Boring for hand pump/ tube well	Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including lowering the casing pipe.				
		16.11.1	Upto 6 metres	Upto 6 metres depth.	meter	6	236.00	1416
		16.11.2	>6 m and upto 12 m	Beyond 6 m and upto 12 m depth.	meter	4	280.00	1120
189	16.6		Gravel packing in tubewell	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	2	947.00	1894
190	16.10		Bail plug /Bottom plug	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part I).				
		16.10.3	200 mm dia	200 mm dia	each	1	265.00	265
191	16.12		Filters with brass strainer	Providing and placing in position filters to 40 mm diameter G.I. pipe with brass strainer of approved quality.Filter of 32 mm dia	meter	1	545.00	545
192	16.13		40 mm G.I. pipe for tube well	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. Filter of 32 mm dia meter.	meter	10	386.00	3860
193	16.14		Hand pump of India mark II	Providing and placing in position hand pump of India mark II of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	1	841.00	841
194	16.15		Stone boulders in recharge pit	Supplying, filling, spreading and leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads and lifts, all complete as per direction of Engineer-in-charge.	cum	0.5	760.00	380
195	16.16		Gravels of in the recharge pit	Supplying, filling, spreading and 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 and lifts, all complete as per direction of Engineer-in-Charge.	cum	0.4	877.00	351
196	16.17		Coarse sand in recharge pit	Supplying, filling, spreading and leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads and lifts, all complete as per direction of Engineer-in- Charge.	cum	0.3	819.00	246
197	16.21		Rain water harvesting kit filter (filter dia 90mm)	Rain water filter made out of ABS plastics material, designed to operate on gravity of rainwater from roof through down pipe, having inlet (id) of 110 mm, outlet (id) of 110 mm; provided with SS 304 wire mesh filter element having diameter of not less than 90 mm and height not less than 500 mm with cap of not less than 70 mm height with two holes of not less than 10 mm on cap as a safety feature. Element must have back wash cap at bottom for cleaning dried particles. Filter must have flush outlet of not less than 60 mm moulded opposite to inlet connection. Flush valve must be supplied along with filter. Rainwater filter must be manufactured from injection moulding process, blended with uv stabilizers.Rainwater filters width to be not less than 400				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
198	16.21.2		110 mm dia for 200 square meter area	System size 110mm diameter (filterrain, tee, door bend, and valve 110mm) For the catchment up to 200 square meter.	each	4	7,750.00	31000
199	16.22		Borewell adaptor	Borewell adaptor for connecting Rain Water Harvesting pipe line to borewell.				
		16.22.	110 mm dia	Borewell adaptor 110mm	each	1	300.00	300
200	16.1		Bore well upto 90 meter depth	Boring/drilling bore well of required dia perfectly vertical to receive 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 and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer-in- Charge, upto 90 metre depth below ground level.				
		16.1.1	All types of soil upto 90 meter	All types of soil upto 90 metre depth.				
		16.1.1.3	200 mm dia	200 mm dia.	meter	50	451.00	22550
		16.1.2	Rocky strata upto 90 meter	Rocky strata including Boulders.Upto 90 metre depth.				
		16.1.2.3	200 mm dia	200 mm dia.	meter	40	690.00	27600
201	16.2		Unplasticized PVC bore well casing	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 and accessories etc. all complete, for all depths, as per direction of Engineer-in- Charge.				
		16.3.3	200 mm dia	200 mm nominal size dia.	meter	60	878.00	52680
202	16.3		Unplasticized PVC bore well screen	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 and labour charges, fittings and accessories etc. All complete, for all depths, as per direction of Engineer-in- Charge.				
		16.3.2	150 mm dia	150 mm nominal size dia.	meter	90	551.00	49590
203	16.4		Mild steel bore casing pipe	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 and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-Charge.				
		16.4.2	150 mm dia	150 mm nominal size dia having minimum wall thickness 4.85 mm.	meter	90	1191.00	107190
204	16.8		Mild steel cap or welded plate to the top of bore well pipe	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:				
		16.9.2		150 mm dia	each	1	366.00	366
205	16.9		M.S. clamp	Providing and fixing M.S. clamp of required dia made of 100 x10 mm flat to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete.				
		16.9.2	150 mm dia	150 mm clamp.	each	2	1129.00	2258
206	16.10		Bail plug /Bottom plug	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS: 2800 (part I).				
		16.10.2	150 mm dia	150 mm dia	each	1	242.00	242
207	16.16		Gravels of in the recharge pit	Supplying, filling, spreading and 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 and lifts, all complete as per direction of Engineer-in- Charge.	cum	2	877.00	1754

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
208	16.17		Coarse sand in recharge pit	Supplying, filling, spreading and leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads and lifts, all complete as per direction of Engineer-in- Charge.	cum	2	819.00	1638
209	18.8		G.I. pipes	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.				
		18.8.3.5	40 mm	40 mm dia. nominal bore	metre	150	402.00	60300
		18.8.3.6	50 mm	50 mm dia. nominal bore	metre	100	492.00	49200
		18.8.3.7	65 mm	65 mm dia. nominal bore	metre	80	533.00	42640
		18.8.3.7	65 mm	80 mm dia. nominal bore	metre	0	622.00	
210			Gun metal gate valve	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
		18.12.1	With CI wheel	With C.I. wheel of approved quality (screwed end)				
		18.12.1.3	40 mm dia	40 mm nominal bore	each	5	677.00	3385
		18.12.1.4	50 mm dia	50 mm nominal bore	each	5	976.00	4880
		18.12.1.5	65 mm dia	65 mm nominal bore	each	5	1,339.00	6695
211	18.19		Masonry Chamber 60x60x75 for sluice valve	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 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 sand : 4 graded stone aggregate 20mm nominal size) ,/i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design	each	0		
		18.19.1	On clay bricks	With common burnt clay bricks of 25 kg /sqcm compressive strength.	Each	4	5,416.00	21664
212	18.54		Enclosed type water meter bulk type	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) :				
		18.54.1	80 mm dia	80 mm nominal bore	Each	4	3,548.00	14192
213	18.55		C.I. dirt box strainer	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373 :				
		18.55.1	80 mm dia	80 mm nominal bore	each	4	4,186.00	16744
214	18.7		CPVC pipes for external work	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. This included jointing of pipes and fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work				
		18.7.3	25 mm	25 mm nominal outer dia .Pipes.	metre	40	185.00	7400
		18.7.4	32 mm	32 mm nominal outer dia .Pipes.	metre	30	238.00	7140
		18.7.5	40 mm	40 mm nominal outer dia .Pipes.	metre	20	324.00	6480
		18.7.6	50 mm	50 mm nominal outer dia .Pipes.	metre	15	498.00	7470
		18.7.7	62.50 mm	62.50 mm nominal inner dia Pipes.	metre	1	1,429.00	1429
215	18.8		G.I. pipes	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.				
		18.8.3	External	External work : including trenching and refilling etc.				
		18.8.3.6	50 mm	50 mm dia. nominal bore	metre	15	492.00	7380
		18.8.3.7	65 mm	65 mm dia. nominal bore	metre	10	533.00	5330
		18.8.3.8	80 mm	80 mm dia. nominal bore	metre	10	622.00	6220
216	18.12		Gun metal gate valve	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		18.12.1	With CI wheel	With C.I. wheel of approved quality (screwed end)				
		18.12.1.2	32 mm dia	32 mm nominal bore.	each	4	558.00	2232
		18.12.1.3	40 mm dia	40 mm nominal bore	each	5	677.00	3385
		18.12.1.4	50 mm dia	50 mm nominal bore	each	4	976.00	3904
		18.12.1.5	65 mm dia	65 mm nominal bore	each	5	1,339.00	6695
		18.12.1.6	80 mm dia	80 mm nominal bore	each	4	2,302.00	9208
		18.12.2	With brass lever handle	With brass lever handle of approved quality.				
		18.12.2.1	25 mm dia	25 mm nominal bore	each	3	428.00	1284
		18.12.2.2	32 mm dia	32 mm nominal bore.	each	3	500.00	1500
		18.12.2.3	40 mm dia	40 mm nominal bore	each	3	584.00	1752
		18.12.2.4	50 mm dia	50 mm nominal bore	each	3	749.00	2247
217	18.14		Ball float valve brass	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
		18.14.1	15 mm dia	15 mm nominal bore	each	3	316.00	948
		18.14.2	20 mm dia	20 mm nominal bore	each	3	431.00	1293
		18.14.3	25 mm dia	25 mm nominal bore	each	3	499.00	1497
218	18.15		Gun metal non-return valve	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
		18.15.1	25 mmdia	25 mm nominal bore				
		18.15.1.1	Horizontal	Horizontal	each	3	462.00	1386
		18.15.2	32 mmdia	32 mm nominal bore				
		18.15.2.1	Horizontal	Horizontal	each	3	587.00	1761
		18.15.3	40 mmdia	40 mm nominal bore				
		18.15.3.1	Horizontal	Horizontal	each	3	746.00	2238
		18.15.4	50 mmdia	50 mm nominal bore				
		18.15.4.1	Horizontal	Horizontal	each	3	1,138.00	3414
		18.15.5	65 mmdia	65 mm nominal bore				
		18.15.5.1	Horizontal	Horizontal	each	3	2,012.00	6036
		18.15.5.1	vertical	vertical	each	0	2,360.00	
		18.15.6	80 mmdia	80 mm nominal bore				
		18.15.6.1	Horizontal	Horizontal	each	3	2,886.00	8658
		18.15.6.2	vertical	vertical	each	0	3,699.00	
219	19.1		Glazed stoneware pipes SP-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 sand) including testing of joints etc. complete : Excavation to be paid seperately				
		19.1.1	100 mm dia	100 mm diameter	metre	35	195.00	6825
		19.1.2	150 mm dia	150 mm diameter	metre	28	260.00	7280
		19.1.3	200 mm dia	200 mm diameter	metre	22	337.00	7414
		19.1.4	230 mm dia	230 mm diameter	metre	18	461.00	8298
		19.1.5	250 mm dia	250 mm diameter	metre	9	507.00	4563
		19.1.6	300 mm dia	300 mm diameter	metre	5	680.00	3400
220	19.3		Cement concrete 1:5:10 upto haunches of S.W. pipes	Providing and laying cement concrete 1:5:10 (1 cement : 5 sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :				
		19.2.1	100 mm dia	100 mm diameter S.W. pipe	metre	35	226.00	7910
		19.2.2	150 mm dia	150 mm diameter S.W. pipe	metre	28	366.00	10248
		19.2.3	200 mm dia	200 mm diameter S.W. pipe	metre	22	430.00	9460
		19.2.4	230 mm dia	230 mm diameter S.W. pipe	metre	18	465.00	8370
		19.2.5	250 mm dia	250 mm diameter S.W. pipe	metre	9	500.00	4500
		19.2.6	300 mm dia	300 mm diameter S.W. pipe	metre	5	577.00	2885
221	19.4		Unplasticised PVC pipe Below ground	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 sold waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperately.				
		19.4.1	110 mm dia	110 mm diameter OD (min. wall thickness 3.2mm)	metre	70	234.00	16380
		19.4.2	160 mm dia	160 mm diameter OD (min. wall thickness 4.0mm)	metre	56	477.00	26712
		19.4.3	200 mm dia	200 mm diameter OD (min. wall thickness 4.9mm)	metre	45	751.00	33795

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		19.4.4	250 mm dia	250 mm diameter OD (min. wall thickness 6.2mm)	metre	36	972.00	34992
		19.4.5	300 mm dia	300 mm diameter OD (min. wall thickness 7.7mm)	metre	18	1,232.00	22176
222	19.5		Cement concrete 1:3:6 all-round unplasticised PVC pipes	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:				
		19.5.1	110 mm dia	110 mm diameter PVC. pipe	metre	70	576.00	40320
		19.5.2	160 mm dia	160 mm diameter PVC. pipe	metre	56	704.00	39424
		19.5.3	200 mm dia	200 mm diameter PVC. pipe	metre	45	821.00	36945
		19.5.4	250 mm dia	250 mm diameter PVC. pipe	metre	36	949.00	34164
		19.5.5	300 mm dia	300 mm diameter PVC pipe	metre	18	1,078.00	19404
223	19.7		S.W. gully trap	Providing and fixing square- mouth S.W. gully trap class SP1 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 :				
		19.7.1	100X100mm	100x100 mm size P type				
		19.7.1.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	2	1,668.00	3336
		19.7.2	150 x 100	150 x 100 mm size P type.				
		19.7.2.2	Sewer bricks	With sewer bricks conforming to IS : 4885	each	2	1,707.00	3414
224	19.8		R.C.C. pipes	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 sand) including testing of joints etc. complete :				
		19.8.1	100 mm dia	100 mm dia. R.C.C. pipe	metre	100	243.00	24300
225	19.9		Rectangular manhole	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 sand)R.C.C. top slab with Cement Concrete 1:2:4 mix (1 cement : 2 sand :4 graded stone aggregate 20 mm nominal size), foundation concrete 1:2:4 mix (1 cement :2 sand : 4 graded stone aggregate 20mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)				
		19.9.1	90X80 cm	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) :				
		19.9.1.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	5	7,747.00	38735
		19.9.3	120x90 cm	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) :				
		19.9.3.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	each	5	21,228.00	106140
226	19.1		Extra depth for manholes	Extra for depth for manholes				
		19.10.1	90x80 cm	Size 90x80 cm				
		19.10.1.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	metre	0.5	5,448.00	2724
		19.10.2	120x90 cm	Size 120x90 cm				
		19.10.2.2	Sewer bricks	With Sewer bricks conforming to IS : 4885	metre	0.5	6,512.00	3256
227	19.17		M.S. foot rests	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
		19.17.2	20 mm dia MS bar	With 20 mm diameter round bar	each	10	187.00	1870

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
228	19.18		Orange colour safety foot rest	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm 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 withstand 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	each	7	266.00	1862
229	19.26		Raising manhole cover and frame	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Brick work for Raising depth of manhole to be paid separately) :				
		19.26.1	Rectangular 90x80 cm Light duty	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	5	1,126.00	5630
		19.26.2	Rectangular 120x90 cm Medium duty	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	5	1,758.00	8790
230	19.27		Road gully chamber 50x45x60cm	Constructing brick masonry road gully chamber 50x45x60cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design :				
		19.27.2	Fly ash bricks	With fly ash bricks 100 key/cm2 strangth	each	5	4,900.00	24500
231	19.28		Road gully chamber 45x45x77.5cm	Constructing brick masonry road gully chamber 45x45x77.5cm with bricks in cement mortar 1:4 (1 cement : 4 sand) with precast R.C.C. vertical grating complete as per standard design :				
		19.28.2	Fly ash bricks	With fly ash bricks 100 kg/cm2 strength	each	5	6,983.00	34915
232	19.31		Soak pit square	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20m long complete as per standard design.	each	1	3,172.00	3172
233	19.40		FRP/GRP composite manhole cover size 900X450mm	Supplying and fixing of FRP/GRP composite manhole cover with frame of clear opening size 900X450mm rectangular having weight of (complete unit) (weight of frame 11.7 kg + weight of cover 43.76kg ± 10%) (HD/25MT) having load bearing capacity (Point load 25MT) as per testing code BSEN 124:1994. Having lifting arrangement should have an insertion of 5mm double sealed closed key hole and high strength plastic alloy/stainless steel socketed arrangement.	each	5	10,130.00	50650
234	19.41		FRP/GRP composite manhole cover size 450X600mm	Supplying and fixing of FRP/GRP composite manhole cover with frame of clear opening size 450X600mm rectangular having weight of (complete unit) (weight of frame 1.84kg + weight of cover 14.2kg ± 10%) (LD/2.5MT) having load bearing capacity (Point load 2.5MT) as per testing code BSEN 124:1994. having lifting arrangement should have an insertion of 5mm double sealed closed key hole and high strength plastic alloy/stainless steel socketed arrangement.	each	5	3,951.00	19755

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
235	2.9		Excavation trenches soil up to 1.5 depth	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 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 : (No extra lift is payable if work is done by mechanical means) in all kinds of soil				
		2.9.1	<80mm dia	Pipes, cables etc., not exceeding 80 mm dia.	metre	35	96.00	3360
		2.9.2	>80mm dia/ <300mm dia	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	28	156.00	4368
236	4.1		C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
		4.1.2	With 40 mm metal	With 40mm nominal size graded stone aggregate.				
		4.1.2.1	M-15	M-15 - Grade concrete	cum	1.34	4403	5900
237	13.10		Neat cement punning	Neat cement punning	sqm	121.71	30.00	3651
238	17.35		C.I.Bend (with lid)	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
		17.35.2	100 mm dia	100 mm dia				
		17.35.2.1	Sand cast	Sand cast iron as per IS – 1729 minimum wall thickness 6.5mm	each	2	364.00	728
239	17.32		soil, waste and vent pipes	Providing and fixing soil, waste and vent pipes:				
		17.32.1	CI Pipe (sand cast)	Sand cast iron socket and spigot (S&S) pipe as per IS: 1729				
		17.32.1.2	100 mm dia	100 mm dia with wall thickness of 5 mm	metre	1	970.00	970
240	19.31		Soak pit square	Constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20m long complete as per standard design.	each	1	3172.00	3172
241	2.7		Excavation rock	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50 m and liftup to 1.5 m, disposed earth to be levelled and neatly dressed.				
		2.7.3	HR (blasting prohibited)	Hard rock (blasting prohibited)	Cum	50	828	41400
242	13.13		21mm sand faced plaster	Providing sand faced plaster upto 10meter high above ground level concrete or brick masonry surfaces in two coats, base coat of 13 mm thick in cement mortar 1:4 (1 cement: 4 sand), clearing the surface by combing it and finishing coat of 8 mm. thick in cement mortar 1:3 (1 cement: 3 sand) and taking out surface grains by mechanical arrangement or applying second coat by mechanical means including cost of all material, labour, and T and P including all lead, lift and scaffolding etc. complete.	sqm	148.74	314	46704
243	13.54		Deluxe multi surface paint	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
		13.54.3	Two or more coats	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.	sqm	599.97	81.00	48598
244	4.1		C.C. upto plinth level	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level :				
		4.1.1	With 20mm metal	With 20mm nominal size graded stone aggregate.				
		4.1.1.3	M-15	M-15 – Grade concrete	cum	8.92	4471	39881

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
245	10.14		Steel work in built up tubular trusses/frame	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work 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.				
		10.14.1	Hot finished welded tubes	Hot finished welded type tubes	kg	353.04	117	41306
246	Road							
247	3.3		Soil Excavation	Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location with all lifts and lead upto 1000m as per relevant clauses of section-300 of specification.	Cum	219.38	55.00	12066
248	3.13		Embankment Construction with Material Obtained from Borrow Pits	Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material having CBR>7 obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-1, 300-2 and as per relevant clauses of section-300.	Cum	219.38	155.00	34004
249	4.1		Granular Sub-base with Well Graded Material (CBR>30 or more	Granular Sub-base with Well Graded Material (CBR>30 or more) (Table:- 400-1 & Table 400-2) Construction of granular sub-base by providing well graded material like natural sand crushed gravel or crushed stone having CBR >30, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator or plant mix method at OMC, and compacting with vibratory rollers of 80 to 100 kN static weight to achieve the desired density, complete as per Clause 401 of Specification. Note :- This item can be executed only after prior written approval by C.E.	Cum	85.15	934.00	79530
250	6.1		Dry Lean Cement Concrete Sub-base	Construction of dry lean cement concrete Sub-base over a prepared sub-grade or drainage layer 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 table 600-1, 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, laid with a paver finisher with electronic sensor, compacting with 8- 10 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete	Cum	25.68	2767.00	71057
251	6.2			Deduct from Item No.6.1 above if paver finisher with electronic sensor, vibratory roller are not used and laying, compaction is done by anyother method. (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures	Cum	25.68	-150	-3852

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
252	6.4		Cement Concrete Pavement	Cement Concrete Pavement Construction of un-reinforced, dowel jointed, plain cement concrete pavement with M-30 grade concrete over a prepared sub base with cement , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with electronic sensor slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per IRC 15 2011 and as	Cum	60.94	5685.00	346444
253	6.5			Deduct from Item No.6.3 & 6.4 above if slip from paver with electronic sensor is not used and laying, compaction is done by any other method (The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same as in case of machine laid work.) This item is to be executed with prior written permission from the C.E.	Cum	60.94	-350	-21329
254	4.13		Construction of Shoulders	Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope & camber of 4% and compacting using vibratory roller of 80 to 100 kN static weight to meet requirement as per relevant clause of 400.				
255	B			Hard Shoulders (CBR value >12)	Cum	70.2	223.00	15655
256	6.8		Dowel Bar	Add extra in Item No.6.3, 6.4, 6.6 & 6.10 above for the cost of steel in dowel bar and tie rod including craddle, laps etc. complete required as per design.				
			i	Mild steel	MT	0.015396	63587.00	979
			ii	Tor steel	MT	0.06864	68297.00	4688
			Calvert					
257	12.1		Excavation for Structures	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom as per relevant clauses of section 300 & 2100 in				
			I	Ordinary soil (including back filling with approved material)				
			(i)	Depth upto 3 m	cum		61.00	
258	9.1		PCC M-15 in Foundation	Plain cement concrete M-15 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. as per MORT&H Specification 409.	Cum		4195.00	
259	9.2			Providing and Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row. Providing and Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material (cost of bedding included) in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head				
			A	1000MM DIA	Meter	0	7012.00	
260	9.6			Providing concrete craddle bedding in M-15 grade concrete as per clause 2900 and as per section 1700 and 2900.	Cum	0	4195.00	
261	13.1			Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications				
			B	PCC Grade M20	cum	0	5727.00	
262	13.2			Supplying, fitting and placing HYSD bar reinforcement in sub- structure complete as per drawing and technical specifications and as per relevant clause of section 1600.				
			i	FE 500,@cum/kg	tonne	0	80503.00	

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
263	13.10			Back filling behind abutment, wing wall and return wall complete as per drawing and Technical specification and as per relevant clauses 305 of specifications and as per appendix 6 of IRC-78.				
			A	Granular material	cum	0	665.00	
264	14.1			Providing and Placing Reinforced/Prestressed cement concrete in super-structure e/x reinforcement as per drawing and Technical Specification and as per relevant clauses of sections 1500, 1700 and 2300 in				
			A	RCC Grade M20				
				(i) Solid Slab	cum	0	5674.00	
265	14.4			Supplying, fitting and placing HYSD bar reinforcement in super- structure complete as per drawing and technical specifications as per relevant clauses of section 1600				
				FE 500,@cum/kg	tonne	0	82810.00	
266	19.36		Precast RCC drain cover of size 600x450 x70mm	Providing & Fixing of Precast RCC drain cover of size 600x 450 x70mm (thickness) with 4 holes, manufactured by using M-30 grade of concrete reinforced with 8mm dia Tor Steel @100mm c/c both ways, manufactured by vibro compaction process using joint less FRP moulds, so as to achieve shuttering finish on five faces @top face will have broom finish etc complete.	each	69.5	350	24325
			Paver Block					
267	28.1		Trenching in ordinary soil	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	540	186.00	100440
268	28.2		Supplying and stacking of good earth	Supplying and stacking of good earth specific useful for plantation at site including royalty if any and carriage (earth measured in stacks will be reduced by 20% for payment).	cum	50	68.00	3400
269	28.3		Supplying and stacking sludge	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced by 8% for payment).	cum	25	643.00	16075
270	28.4		Supplying and stacking dung manure (fym) farm yard manure	Supplying and stacking at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment) :	cum	25	734.00	18350
271	28.5		Dressing of the trenched ground	Rough dressing the trenched ground including breaking clods.	100 sqm	2.5	445.00	1113
272	28.6		Uprooting weeds	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100 sqm	2.5	151.00	378
273	28.7		Fine dressing of the ground	Fine dressing of the ground	100 sqm	2.5	113.00	283
274	28.8		Spreading of sludge, dung manure and / or good earth	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Engineer-in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	cum	25	16.00	400
275	28.9		Mixing earth and sludge or manure (fym) farm yard manure	Mixing earth and sludge or manure in the required proportion specified or directed by the Engineer-in- charge.	cum	50	11.00	550
276	28.23		Preparation of mounds	Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of Each layer, dressing etc. lead upto 50 metre and lift upto 1.5 m complete as per direction of Engineer-in-Charge.	cum	21.6	138.00	2981

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
277	28.10		Planting of Grass	Grassing with Selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately):				
		28.10.4	With grass	With grass turf	100 sqm	0.35	186.00	65
		28.10.9	Maintenance of Grassing	Maintenance of Grassing ground done by Seeding Method as mentioned in Item No. 28.10.6 from the stage of germination to first cut i.e. approximately 45 days.	sqm	50	40.00	2000
278	28.12		Uprooting rank vegetation and weeds	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	100 sqm	2.5	1,861.00	4653
279	28.13		Preparation of beds for hedging and shrubbery	Preparation of beds for hedging and shrubbery by excavating further 30cm deep of already prepared trench, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	cum	25	67.00	1675
280	28.14		Digging holes refilling mixed with manure or sludge	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :				
		28.14.1	120 cm dia	Holes 120 cm dia and 120 cm deep.	each	10	141.00	1410
		28.14.2	60 cm dia	Holes 60 cm dia and 60 cm deep.	each	20	61.00	1220
		28.14.3	45 cm dia	Holes 45 cm dia and 45 cm deep.	each	50	19.00	950
		28.14.4	30 cm dia	Holes 30 cm dia and 30 cm deep.	each	50	9.00	450
281	28.18		Filling mixture of earth and sludge or manure	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and levelling (cost of supplying earth and sludge or manure and mixing excluded).	cum	25	16.00	400
282	28.20		Flooding water and making kiaries	Flooding the ground with water including making kiaries and dismantling the same.	100 sqm	0.5	511.00	256
283	28.21		Tree guard 45 cm square (M. S.)	Providing and fixing M. S. tree guard 45 cm square in plan, height 1.20 metre above ground level and 0.40 metre below ground level. The vertical members shall consist of four nos. angle iron of size 25x25x3 mm, 1.8 m long, one at Each corner and 8 nos. flat iron of size 25x3 mm, 1.2 m long. The vertical members shall be welded to 4 nos. 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc. complete. The tree guard shall be painted with two or more coats of synthetic enamel	each	5	1,426.00	7130

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
284	28.22		Tree guard 50 cm square in M. S.	Providing and fixing M. S. tree guard 50 cm square in plan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos. of angle iron of size 25x25x5 mm 1.9 long, one at Each corner and 8 nos. flat iron of size 25x5 mm 1.4 long. The vertical members shall be welded to 4 nos. 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1 mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered PWD/any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc. complete. The tree guard shall be painted with two coats of paint of	each	5	2,245.00	11225
285	28.24		Providing Circular Cement Concrete pots	Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 Nos. (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows and height, all complete as per direction of Engineer-in-Charge.				
		28.24.1	35cm dia	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm.	each	5	137.00	685
		28.24.2	30 cm dia	Top inside dia 30 cm, outer bottom dia 20 cm, total height 30 cm with wall thickness of 25.4 mm.	each	5	100.00	500
286	28.25		Providing square cement concrete pots	Providing Square Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 7 Nos. (3 nos. horizontal and 4 nos. vertical "V" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed surface, curing for specified period and stacking in required rows and height, all complete as per direction of Engineer-in-Charge. Top inner width 35 cm, outer bottom width 25 cm, total height 35 cm and wall thickness 25.4 mm.	each	5	165.00	825
287	28.26		Rotomoulded Circular Planter	Providing of Rotomoulded circular planters of different sizes.				
		28.26.1	30 cm dia	Upper dia 30cm and height 24cm	each	1	405.00	405
		28. 26.2	40 cm dia	Upper dia 40cm and height 31cm	each	1	675.00	675
		28. 26.3	50 cm dia	Upper dia 50cm and height 37cm	each	1	1,147.00	1147
		28. 26.4	60 cm dia	Upper dia 60cm and height 47cm	each	1	1,665.00	1665
		28. 26.5	70 cm dia	Upper dia 70cm and height 55cm	each	1	2,700.00	2700
		28. 26.6	80 cm dia	Upper dia 80cm and height 62cm	each	1	3,510.00	3510
		28. 26.7	90 cm dia	Upper dia 90cm and height 69cm	each	1	4,552.00	4552
		28. 26.8	100 cm dia	Upper dia 100cm and height 74cm	each	1	5,805.00	5805
		28. 26.9	120 cm dia	Upper dia 120cm and height 95cm	each	1	8,910.00	8910
288	28.15		Planting different variety of plants	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc. complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of Engineer-in-Charge complete in all respect (B.C. Mixture paid separately).				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		28.15.1	Shrubs (75-90 cm height)	Bahunia Tomentosa, Beloperone Species, Caselpinnia Pulcherima, Bird of Paradise, Callandra Emarginata, Callandra Hybrida, Cassia Bi flora, Cassia Laevigata, Cestrum Nocturnum, Dombeya Mastersii, Euphorbia Caracasana, Euphorbia Pulcherima, Excorea bi color, Excorea tri color, Ficus Blackii, Ficus Reginold, Ficus Panda, Gardenia, Gulphinia, Jasminoides, Hamelia, Pattens, Heliconia, Hibiscus Rosasinensis, Hibiscus Verigated, Hibiscus Viceroy, Jatropa Multifida, Largestomia Indica, Malpighia Coccigera, Murraya Exotica, Murraya Koeniggi, Murraya Sambucum, Mussaenda Erythrophylla, Nerium Oleander, Nyctanthus Arbortristis, Plumbago Capensis, Putranjeeva Roxburghii, Tabernaemontana Coronaria, Tabernaemontana	Each	5	80.00	400
		28.15.2	Creepers plants (height :30cm to 45 cm)	Allamanda Cathartica, Allamanda Grandiflora, Allamanda Violacea, Begonia Venusta, Boughan Villas (Variety : Butiana, Lady Mary Bearing, Mahaara, Mohan, Scarlet Queen Variagata, Glabra Formosa, Peruviana Odissi, Partha, Shubhra, Thimma, Spectabilis, L.N. Birla, Refulgens), Clerodendrum Splendens, Clerodendrum Thompsonae, Ipomea Purpurea, Jasminum Grandiflorum, Jasminum Humile (Yellow), Passiflora Caerulea (Rakhi Bel), Petrea Volubilis, Quis Qualis Indica, Tecoma Grandiflora, Veronia Elaegnifolia (Curtain Creeper), Mandvella, Garlic Creeper, Callimitis	each	5	50.00	250
		28.15.3	Ground cover plants height: 30cm-45cm	Alpinia Verigated, Alternanthera species, Aspyragus Myerri, Aspyragus Springenii, Aspidistra, Canna (regular, Dwarf), Chlorodendron Inermii, Chlorophytum (Green), Chlorophytum verigated, Coffea Chinensis, Dianella Verigated, Durranta (Goldiana, Green, Verigated), Euphorbia Milli hybrid, Ipomea (Golden leaves), Iresine herbstii, Juniper Prostata, Juniper Africana, Ophiopogon plant, Ophiopogon jaburan, Portulacaria Afra (jade Plant), Schefflera Green, Schefflera verigated, Setcreasea Purpurea, Syngonium (Butterfly) species, Syngonium miniature, Syngonium Dwarf, Syngonium variegated, Tradescantia, Wadelia Trilobata, Zebrina Tradescantia, Pendanas, Spider Lily Black, Spider Lily verigated, Aclypha (Red,	each	5	50.00	250
		28.15.4	Winter seasonal height: 20-30 cm	Any of one from Alyssum, Anemone, Antirrhinum Hybrid, Aster Hybrid, Begonia and its different varieties, Calendula, Carnation, Coleus, Daisy, Dianthus, Fressia, Gazania, Impatiens, Kalanchoe, Marigold Inca, Missam branthemum, Nemasia, Nasturitium, Ornamental Kale, Pansy Hybrid Sakata, Petunia Hybrids such as Bravo, Star and Picotee, Salvia, Stock, Stock, Verbena	each	5	42.00	210
		28.15.5	Summer and rainy seasonal plants	Any of one from Celosia, Caladium Hybrid, Cockscomb, Cosmos, Gaillardia, Gomphorena, Kochchea, Portulacca, Sunflower Hybrid, Sunflower Single, Tapiocca Variegated (Manihot Esculenta), Vinca, Zinnia Hybrids.	each	5	42.00	210
		28.15.6	Rose plants height: 30cm & above	Budded Roses of H.T variety and miniature Roses.	each	10	170.00	1700
		28.15.7	Rose plants creepers	Plant Creeper Rose Varieties	each	5	212.00	1060
		28.15.8	Rose plant H.T. standard	Standard Roses H.T. Variety	each	5	382.00	1910
289	28.16		Tree guard (bricks)	Half brick circular tree guard in bricks, internal diametre 1.25 metre and height 1.2 metre above ground and 0.20 m below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 sand) and the intermediate courses being in dry honey comb masonry as per design complete:	each	5	800.00	4000

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
290	28.17		Edging (bricks)	Edging with bricks laid dry length wise, including required excavation, refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50 m:				
		28.17.2	Fly ash	Fly ash bricks	metre	100	34.00	3400
291	28.27		Rotomoulded Square Planters	Providing of rotomoulded planters of square shape of different sizes.				
		28. 27.1	40cm x 40 cm x 37cm	40cm x 40 cm x 37cm	each	5	1,260.00	6300
		28. 27.2	50cm x 50cm x 45cm	50cm x 50cm x 45cm	each	5	2,700.00	13500
292	28.31		Anti termite treatment of trees	Providing and applying Anti Termite treatment of infected areas i/c branches/leaves by spraying chemical emulsion 0.5% (Chloropyriphos 20%EC) concentration through power spray machine (@100ml Chloropyriphos per Tree i/c cost of chemical) and as per the direction of Engineer-in- Charge.	each	45	70.00	3150
293	28.32		Anti termite treatment of grass	Anti Termite treatment of Lawn area through premise 30.5%I.P, one liter premise diluted in 499 litres water and applying solution @1.00 liter solution per sq.m lawn or bed area. (Two application) i/c cost of chemical and as per direction of Engineer-in-Charge.	sqm	250	10.00	2500
294	28.35		Stone bench	Providing and fixing of 3 seater stone bench made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing on a pedestal (cost of pedestal to be paid separately)etc. complete as per direction of engineer in charge. Size: length 1500mm, width 600mm, legs height 500 mm, back support height 500mm.	each	4	9,700.00	38800
295	28.37		Stone table	Providing and fixing of stone table made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing on a pedestal (cost of pedestal to be paid separately)etc. complete as per direction of engineer in charge. Size: length 1000mm, width 600mm, legs height 750 mm.	each	2	7,900.00	15800
296	18.5		3 layer PP-R pipes external work	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized and anti - microbial fusion welded, having thermal stability for hot and cold water supply including all PP - R plain and brass threaded polypropylene random fittings i/c trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External work				
		18.5.3	25 mm	PN - 16 Pipe, 25 mm OD (SDR 7.4)	metre	200	178.00	35600
		18.5.4	32 mm	PN - 16 Pipe, 32 mm OD (SDR 7.4)	metre	100	268.00	26800
297	18.15		Gun metal non-return valve	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
		18.15.2	32 mmdia	32 mm nominal bore				
		18.15.2.1	Horizontal	Horizontal	each	5	587.00	2935
298	18.44		PTMT bib cock 15mm dia	Providing and fixing PTMT bib cock of approved quality and colour 15mm nominal bore.				
		18.44.2	122mm long	122 mm long weighing not less than 99 gm	each	5	208.00	1040
299	20.10		Single under reamed piles of specified diameter and length below pile cap	Boring, 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, cement concrete 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) : Note: - The minimum grade of concrete to be used for piling shall be M-20 and the minimum cement content shall be 400 kg/m3 in all condition.		5.71	516	2946
		20.10.1	250 mm dia	250 mm diameter piles	RM	0		

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
300	10.2		Structural steel work built up sections	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. 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.	KG	0.88	103	91
301	11.72		Chamfered edge cement concrete paver blocks over	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required colour strength, thickness pattern, surface texture (smooth/rough) and size/shape, conforming to 15658-2006 IS marked made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/ laying of inter locking paver blocks into the 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 including locking edges in 0.30 mm with courtyards, porch with M 15 cement concrete in footpath, parks, lawns, drive ways or				
		11.72.	60mm thick	60 mm thick C.C. paver block of M-30 grade	sqm	68	605	41140
302	18.24		Painting two coats of anti-corrosive bitumastic	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
		18.24.6	50 mm dia	50 mm diameter pipe	metre	0	10.00	
		18.24.7	65 mmdia	65 mm diameter pipe	metre	0	13.00	
		18.24.8	80 mmdia	80 mm diameter pipe	metre	0	15.00	
303	18.26		G.I. Union	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
		18.26.6	50 mm dia	50mm nominal bore	each	0	428.00	
		18.26.7	65 mmdia	65mm nominal bore	each	0	625.00	
		18.26.8	80 mmdia	80 mm nominal bore	each	0	718.00	
304	6.15		Half brick masonry fly ash lime bricks	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.				
		6.15.3	50 kg/cm2	Having 50 kg/cm2 average compressive strength.				
		6.15.3.2	CM 1:4	Cement mortar 1 : 4 (1 cement : 4 sand)	sqm	0	459	
305	9.203		Laminated flush door shutters core of block board construction frame of finger jointed 1st class hard wood	Providing and fixing ISI marked factory made flush door shutters conforming to IS: 2202(Part-I) laminated type, core of block board construction with kiln seasoned and chemically treated 2nd class hard wood battens (strips) and frame of kiln seasoned and chemically treated, finger jointed 1st class hard wood of width not less than 65mm for style, top rail, bottom rail and 125mm for lock rail. Block board shall be provided with well matched 3mm thick commercial 3ply veneering consisting of vertical grains, cross bands and commercial grade face veneers on both outer faces of shutters including kiln seasoned and chemically treated, finger jointed 2nd				
		9.203.1	35mm 4 hinges	35mm thick including 4 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary screws.	sqm	0	3339	
Total Civil								50449943
Electrical								
1	4.1		Point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLSH with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLSH copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :-				
		4.1.1	Light/Fan points primary	Light Point/Fan Points.				
		4.1.1.1	Short	Primary Short point	Each	451.00	100	45100.00
		4.1.1.2	Medium	Primary Medium point	Each	830.00	150	124500.00
		4.1.1.3	Long	Primary Long point	Each	1300.00	400	520000.00
		4.1.2	Looping point secondary	(Light point/fan points) looping point				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		4.1.2.1	Short	Secondary Short point	Each	226.00	10	2260.00
		4.1.2.2	Medium	Secondary Medium point	Each	415.00	20	8300.00
		4.1.2.3	Long	Secondary Long point	Each	650.00	20	13000.00
		4.1.3	Socket 6A sep. board	3 Pin 6 Amp socket outlet on separate board	Each			
		4.1.3.2	Medium	Medium point	Each	990	20	19800.00
		4.1.3.3	Long	Long point	Each	1515	55	83325.00
		4.1.4	Call bell point	Call bell/buzzer points				
		4.1.4.3	Long	Long point	Each	1183.00	30	35490.00
2	4.2		Socket same board 6A	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLSH with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	Each	265.00	160	42400.00
3	4.3		Circuit wiring 2.5Sq. Mm	Wiring for circuit wiring with PVC insulated cable FRLSH with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification				
		4.3.1	2 Wire	2x2.5 Sq.mm.	Metre	139.00	400	55600.00
		4.3.2	4 Wire	4x2.5 Sq.mm.	Metre	224.00	300	67200.00
		4.3.3	6 Wire	6x2.5 Sq.mm.	Metre	288.00	200	57600.00
		4.3.4	8 Wire	8x2.5 Sq.mm.	Metre	353.00	100	35300.00
4	9.1		Power point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLSH with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLSH copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-				
		9.1.1	Power point	On Separate Board				
		9.1.1.2	Medium	Medium Point	Each	1749.00	5	8745.00
		9.1.1.3	Long	Long Point	Each	2612.00	5	13060.00
		9.1.1.4	Extra Long -I	Extra Long -I	Each	3648.00	10	36480.00
		9.1.1.5	Extra Long -II	Extra Long -II	Each	4771.00	15	71565.00
		9.1.1.6	Extra Long -III	Extra Long -III	Each	5986.00	15	89790.00
5	9.2		Same board	Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	Each	437.00	10	4370.00
6	16.1		Concealed PVC conduit HMS	Supply and fixing PVC conduits required confirming to IS 9537 (Part- 3), ISI marked along with the accessories in concealed system etc. as required.				
		16.1.1	20 mm HMS	PVC . Conduit 20 mm (HMS)	Metre	61.00	400	24400.00
		16.1.2	25 mm HMS	PVC . Conduit 25 mm (HMS)	Metre	74.00	300	22200.00
		16.1.3	32 mm HMS	PVC . Conduit 32 mm (HMS)	Metre	115.00	200	23000.00
7	18.2		Modular G.I. metal box (concealed)	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
		18.2.1	G.I box 1 Or 2 module	1 Or 2 Module metal box	Each	182.00	40	7280.00
		18.2.2	G.I box 3 module	3 Module metal box	Each	216.00	130	28080.00
		18.2.3	G.I box 4 module	4 Module metal box	Each	244.00	40	9760.00
		18.2.4	G.I box 6 module	6 Module metal box	Each	309.00	160	49440.00
		18.2.5	G.I box 8/9 module	8/9 Module metal box	Each	373.00	50	18650.00
		18.2.6	G.I box 12 module	12 Module metal box	Each	502.00	185	92870.00
8	19.1		Single core PVC insulated FRLSH cable	Supplying and drawing single core PVC insulated cable FRLSH with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.				
		19.1.3	4.00 sq. mm.	4.00 sq mm wire				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		19.1.3.3	3 wire	3 X 4.00 sq mm	Mtr	134.00	200	26800.00
		19.1.4	6.00 sq mm	6.00 sq. mm wire				
		19.1.4.3	3 wire	3 X 6.00 sq mm	Mtr	202.00	200	40400.00
		19.1.4.5	5 wire	5 X 6.00 sq mm	Mtr	336.00	100	33600.00
9	23.1		Sub mains in recessed/concealed rigid PVC conduit (HMS)	Wiring for sub-mains with PVC insulated cable FRLSH with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLSH ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring				
		23.1.4	4 Wire	4 WIRE SUB-MAIN				
		23.1.4.3	6.0 sq mm cable	6.0 sq mm cable	Mtr	398.00	200	79600.00
		23.1.4.4	10.0 sq mm cable	10.0 sq mm cable	Mtr	601.00	200	120200.00
10	27.8		MCB 'C' Series, 240/415V, 50 Cycle, 10kA/15kA	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
		27.8.1	Single pole	SINGLE POLE				
		27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	Each	263.00	140	36820.00
		27.8.3	Triple pole	For Triple pole				
		27.8.3.3	MCB TP 40A, 10kA	MCB TP For 40Amp 10kA rating	Each	2099.00	4	8396.00
11	27.1		MCCB 3Ph, 3 Pole, 50Hz, 415V	Supply of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase, 3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS – 8828				
		27.1.2	MCCB 80 to 100A, 10kA, 3P	MCCB current rating -80 to 100Amp, 10kA, 3P 415V AC	Each	3256.00	12	39072.00
12	27.1		Vertical TPN MCB DB, with provision for MCCB upto 160A TP/FP 36kA, double door	Supplying of approved make, powder coated metal double door vertical TPN MCB DB IP 43 protection with provision for MCCB upto 160A TP/FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB/MCBs) inclusive of busbar & connections etc				
		27.14.3	8 Way without MCCB	8 Way without MCCB	Each	15989.00	1	15989.00
13	27.1		TPN MCB DB double door	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator):				
		27.12.1	4 Way (4+12)	4 Way (4+12)	Each	5126.00	11	56386.00
14	28.4		Fixing of MCB/MCC B/Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
		28.4.1	MCB/Isolat or SP/DP	MCB/Isolator SP/DP	Each	22.00	140	3080.00
		28.4.2	MCB/MCC B Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	Each	28.00	12	336.00
15	28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCB DB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-				
			For item	For item no :-				
		28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	Each	268.00	12	3216.00
16	29.3		Call bell	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.				
		29.3.3	Ding Dong bell	Ding Dong bell	Each	185.00	30	5550.00

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
17	29.3		Modular electronic fan regulator	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
		29.25.2	2 module	100 Watt(2 module)	Each	484.00	180	87120.00
18	30.1		Electric ceiling fan	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required conforming to IS :374/2019 with upto date amendments.				
		30.1.2	1200 mm sweep	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..	Each	2292.00	170	389640.00
		30.1.3	1400 mm sweep	Ceiling Fan (ISI marked)-1400 mm Sweep, minimum air delivery 245 m ³ /min and service value ≥ 4.10 as per BEE.	Each	2540.00	10	25400.00
19	30.2		Wall mounting fan	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
		30.2.2	400 mm	400 mm sweep	Each	2810.00	5	14050.00
20	30.5		Deluxe fresh air fan	Supplying and fixing of deluxe fresh air fan with louvers (ventilating fan) with self-closing louvers of decorative PVC blades mounting square frame of approved make complete with all necessary material as required				
		30.5.4	300 mm	300mm RPM1300/1400	Each	2004.00	12	24048.00
21	30.6		Exhaust fan heavy duty	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
		30.6.2	380 mm	380mm sweep RPM 900 /1400	Each	3271.00	6	19626.00
22	31.3		LED tube rod fixture	Supply and fixing Led tube rod comprising of LED tube with non-integral/integral driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy> 100 lm/Watt. LED driver PF> 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
		31.3.3	Tube light LED 1 X 18W	Tube light LED 1 X 18Watt, Integral i/c batten aluminium body, PC diffuser.	Each	713.00	330	235290.00
23	31.4		LED Panel (recessed mounting)	Supply and fixing of recessed mounting type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
		31.4.1	2' X 2', 36W, 3000-6500k		Each	3103.00	6	18618.00
24	31.6		LED down lighter (recessed mounting)	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV . The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012) , IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..				
		31.6.6	18/20W	18/20Watt, color temp 3000-6500k as required.	Each	1651.00	12	19812.00

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
25	29.7		LED lamp	Supply and fixing in position LED lamp of approved make				
		29.7.3	5W 250Volt	5 Watt 250 Volt	Each	98.00	20	1960.00
		29.7.5	9W 250Volt	9 Watt 250 Volt	Each	110.00	30	3300.00
		29.7.7	15W 250Volt	15 Watt 250 Volt	Each	223.00	100	22300.00
26	37.4		PVC insulated cu. cable earth continuity conductor	Supply and drawing PVC insulated copper cable (earth continuity conductor) of green colour FRLSH with copper multi strand conductor ISI mark in existing conduit along with other wires as required as per specification :				
		37.39.2	6 Sq mm.	6 Sq mm.	Mtr	71.00	200	14200.00
		37.39.3	10 Sq mm.	10 Sq mm.	Mtr	102.00	200	20400.00
27	31.13		Street light with high power LED system	Supply and fixing street light with high power LED of 3 to 6 Watt each on existing bracket assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF> 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79- 08/IS16106 (2012), IEC60598, IEC61347 i/c connection wire, testing etc. to complete the job.				
		31.13.1	40 W	40Watt to 48Watt, color temp 3000- 6500k as required.	Each	6105.00	6	36630.00
28	32.2		Elect. Sanitary napkin incinerator	Supply, Installation, Testing and Commissioning of Electrical Napkin Incinerator Wall mounted factory fabricated with CRCA sheet steel of 1.2mm thickness duly powder coated suitable for 230V 50Hz AC Supply with auto cut-off feature having insulation of thermal ceramic sheet with glass wool of 4-5mm thick with MCB protection & aprox.2 meter flexible flue gas pipe with clamp.				
		32.17.4		Sanitary Napkin Incinerator(Capacity 200 per Day)	Each	54270.00	3	162810.00
29	37.3		Earthing with G.I. earth plate 600x600x6 mm	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Each	7487.00	2	14974.00
30	37.5		Add extra for using salt and charcoal/ coke for G.I /copper	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation and refilling the pit in all type of soil, murrum	Each	1655.00	2	3310.00
31	37.8		G.I. wire conductor earth electrode	Supply and laying 4.87mm 6 SWG G.I. wire at 0.5 metre below ground level as conductor earth electrode including jointing etc. as required.	Mtr	25.00	20	500.00
32	39.2		3 Phase deep well submersible pump steel body	Supplying & installation of required capacity of three phase, 50 Hz, 415V, deep well submersible pump steel body, as per IS of approved make, suitable upto 6 " tube well with control panel starter suitable for submersible pump with dry run protection, single phase preventer, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe and connection cable.				
		39.2.10	7.5 HP, 15 stages	7.5 HP with 15 stages, head metre 138-60, discharge LPM 60-270	Each	81412	1	81412.00
33	39.3		Submersible flat cable 3 core cu. Wire	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make.				
		39.3.2	4.0 sq.mm	4.0 sq.mm multi strand	per mtr	205.00	200	41000.00
34	39.4		HDPE pipe	Supplying and laying of approved make HDPE pipe as per IS:4984 and IS:14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, tees, etc. as required (PE-63 & working pressure 6 kgf/sq cm)				
		39.4.4	50 mm	50 mm Outer Dia.	Mtr	279.00	200	55800.00
35	39.5		Nylon rope 12 mm thick	Supplying and laying of approved make nylon rope 12 mm thick complete with binding for support of pump and motor.	Mtr	76.00	200	15200.00

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
36	39.10		3 Phase open well submersible pump	Supplying & installation of approved make required capacity 3 phase, 50 Hz, 415V, open well submersible pump, with control panel starter with dry run protection, single phase preventer, connections, etc. as required as per specifications but excluding pipe and connection cable.				
		39.10.2	5.0 HP head metre 12-28	5.0 HP head metre 12-28, discharge LPM 1200-390	Each	47724	1	47724.00
37	42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				
			Level-2	Energy efficiency level -2 (New level -1)				
		42.70.1	Al. wound	Aluminium wound				
		42.70.1	100 KVA	100 KVA	Each	316509.00	1	316509.00
38	42.2		RS Joist/H-Beam	Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required.				
		42.2.2	175x85 - 19.3 kg/metre	R.S. Joist 175x85 - 19.3 kg/metre	Metre	1467.00	11	16137.00
		42.2.6	H - Beam 152x152mm	H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	Metre	2843	132	375276.00
39	42.42		Angle/channel/flat iron fitting for overhead line & sub-station etc.	Supply, fabrication and erection of angle/channel/flat iron fitting for overhead line & sub-station etc such as 'D' bracket, cross arms, top clamp, 'V' cross arms, back/support clamp or other similar work etc. including nut bolts of required size, making holes, fabrication, welding, cutting, etc. and painting with one coat of red oxide paint & two coat of aluminium paint as required as per specification.	Kg.	105	1200	126000.00
40	42.68		G.I. earth coil of 4mm dia	Supply, laying and fixing of G.I. earth coil of 4mm dia G.I. wire having 120 turns of nearly 50mm dia. and 3 mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	293.00	12	3516.00
41	42.52		11KV (5 KN) polymer pin insulator	Supplying and erection of 11KV (5 KN) polymer pin insulator complete with long steel head G.I. pin, nut, washer etc. as required.	Each	402.00	33	13266.00
42	42.53		11KV (45 KN) Polymer disc insulator for 11KV overhead lines	Supplying and erection of 11KV (45 KN) Polymer disc insulator for 11KV overhead lines with galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	Each	502.00	6	3012.00
43	42.5		AAAC conductors	Supplying and drawing all aluminium alloy conductor (AAAC) of approved make conforming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)				
		42.5.3	Raccoon	AAAC 0.075 sq inch (80 sq.mm Al. EQ.)-(Raccoon)	Km	79735.00	1.5	119602.50
44	34.4		Painting of poles	Painting of poles				
		34.4.2	Prima coat with red oxide zinc chromide paint	Prima coat over new steel and other metallic surface with red oxide zinc chromide paint complete with supply of material labour etc. including preparation of surface.	Per sqm	76	100	7600.00
		34.4.3	Prima coat with aluminium paint	Prima coat with aluminium paint, brushing complete with material and labour including preparation of surface	Per sqm	96	100	9600.00
45	37.1		With G.I. earth pipe	Earthing with G.I. earth pipe 4.5 metre long and 40 mm dia with masonry encloser in cement mortar, cover plate having locking arrangement on the top etc. (but without charcoal or coke and salt) complete as required	Each	3312.00	6	19872.00

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
46	42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				
			Level-2	Energy efficiency level -2 (New level -1)				
47	37.2		Add extra for using salt and charcoal/coke for pipe earth electrode	Add extra for using salt and charcoal/coke for pipe earth electrode as required including excavation & refilling				
		37.2.1	Excavation	Excavation 4.5 m by manual labour	Each	1942.00	6	11652.00
48	37.9		25x5 mm G.I. strip	Supply and laying 25mm X 5mm G.I. strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.	metre	130.00	100	13000.00
49	42.62		Outdoor H.T., AB switch assembly set	Supplying installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On-Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification.(Set of 3 nos.)				
		42.61.1	11 KV, 400Amp	11 KV, 400Amp	set	8989.00	2	17978.00
50	42.58		Single piece nonlinear resistor type lighting arrester (set of 3 nos) for 3 wire, 11KV	Supplying and erection of single piece nonlinear resistor type lighting arrester (set of 3 nos) for 3 wire, 11KV overhead lines/sub-station with rated voltage of 9KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Set	3832	1	3832.00
51	42.63		D.O. fuse	Supplying installing, testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4 KV DP Structure set of 3 Nos. with fuse barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required.				
		42.63.1	11 KV	11kV	set	4721.00	1	4721.00
52	42.26		Stay set complete (galvanized) 19mm. dia x 1.8 metre long stay rod	Supplying and erection of stay set complete (galvanized) 19mm. dia x 1.8 metre long stay rod anchor plate of size 300 mm x 300 mm x7.5mm thimble stay clamp, turn buckle (19mm dia x 600mm), 7/4.00mm dia G.I. stay wire etc. in cement concrete M-10 (1 Cement: 3 Coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required.	Each	4600.00	6	27600.00
53	42.9		Guard wire/earth wire/bearer wire 13 sq mm	Supplying and drawing guard wire/earth wire/bearer wire 13 sq mm (4mm. dia) G.I. including stringing, binding at existing insulators or brackets, jointing, jumpering, connecting & cradle etc. as required and clearing of obstacles (if any)	Km	15675.00	1.5	23512.50
54	42.69		Danger board	Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure/poles.	Each	205.00	12	2460.00
55	42.67		Anti-climbing device	Supply & fixing anti climbing device with 2 ply G.I. barbed wire 1 Kg. per pole complete as per MPMKVCO. Specification.	Each	231.00	12	2772.00
56	41.1		XLPE insulated power cable, al. conductor	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
57	42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				
			Level-2	Energy efficiency level -2 (New level -1)				
		41.1.8	3½ core armoured	3½ core armoured				
		41.1.8.1	25 Sq.mm	25 Sq.mm	Metre	231	50	11550.00
		41.1.8.8	185 sq. mm.	185 sq. mm.	Metre	1150.00	100	115000.00
		41.1.4	Armoured 2 core	Armoured 2 core				
		41.1.4.2	4 Sq.mm	4 Sq.mm	Metre	80.00	50	4000.00
		41.1.4.3	6 Sq.mm.	6 Sq.mm.	Metre	100.00	50	5000.00
58	41.12		G.I. pipe for protection of underground cable	Supplying & installing G.I. pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismantling & other finished masonry Item complete.				
		41.12.2	For 'A' class G.I. pipe	For 'A' class G.I. pipe ISI marked(IS-1161-69)				
		41.12.2.9	100.00mm	100.00mm	Metre	1151	12	13812.00
59	41.24		Cable tray	Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron/hanging rod, for ceiling suspensions, clamp, anchor fastener, nuts, bolts, washers, not more than 1.0 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-				
		41.24.3	300 x 50 x 1.6mm thick	300 x 50 x 1.6mm thick	Mtr	1027.00	10	10270.00
60	42.19		Erection of poles, length 7 metres but not exceeding 10 metres	Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length 7 metres but not exceeding 10 metres in cement concrete 1:3:6 (1 cement : 3 core sand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffing including excavation and back refilling etc. as required.	Each	4074.00	4	16296.00
61	42.20		Erection of poles, length exceeding 10 metres but not exceeding 13 metres	Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length exceeding 10 metres but not exceeding 13 metres in cement concrete M-10 (1 cement:3 core sand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffing including excavation and back refilling etc. as required.	Each	5289.00	13	68757.00
62	42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
			Level-2	Energy efficiency level -2 (New level -1)				
63	42.75		Fencing of chain link mesh 100x100 mm, 12 SWG GI wire	Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire for for D.P. structure electric sub-station switch yard including single post of angle iron size 50x50x5mm, 2.5 mt long should be provided upto 2.00 mt. apart or as required. The panel frame with required angle iron/ flat iron members/cross members including mesh welded in frame panel shall be erected between the posts. The angle iron post shall be erected in cement concrete M-15 (1:2:4) (20 mm graded metal) foundation, including excavation of pit and refilling the same. The fencing shall be provided with one entrance gate including locking arrangement as required as per specification. The height of fencing shall be 2 mt. above ground level. Fencing shall be painted with required shade.	Sq.Mt	1821.00	60	109260.00
64	42.77		Rubber mat	Supply of rubber mat 2 x 1.0Mtr, 1100V tested	each	1913	1	1913.00
65	27.1		MCCB 3Ph, 3 Pole, 50Hz, 415V	Supply of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS – 8828				
		27.1.7	MCCB 160A, 36kA, 3P	MCCB 36KA current rating, 3P -160Amp &adjustable: 80% -100% thermal	Each	14499.00	3	43497.00
66	29.27		LT panel	Supply, fixing, testing & commissioning wall/floor mounted LT panel primer coated with powder coated paint & provided with required gasket for dust/vermin proof with degree of protection IP42 suitable for 415Volt 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Metre, Volt Metre, selector switches, frequency Metre, phase indicating lamp, Energy Metre complete including cost of busbar supports, detachable cable gland plates, 2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs, ACB, panel mounted changeover switch/SFUs, etc. as required but excluding cost of busbar strips, Ampere Metre, Volt Metre, selector switch as per approved design & specification	Kg	397.00	120	47640.00
67	29.28		LT panel accessories	Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				
		29.28.1	Digital Ampere Metre	Digital Ampere Metre with CTs with selector switch	per set	2125.00	2	4250.00
		29.28.2	Digital Volt Metre	Digital Volt Metre with selector switch & HRC fuse	per set	2398.00	2	4796.00
		29.28.3	Frequency Metre	Frequency Metre	Each	1435	2	2870.00
		29.28.6	Aluminium bus bar strips	Aluminium bus bar strips with PVC sleeves	Kg	284	12	3408.00
		29.28.7	LED lamp indicator	LED lamp indicator	each	255.00	6	1530.00
68	41.15		Cable Laying	Cable Laying				
69	42.70		Transformers, 11/0.4 KV 3 Phase	Supplying, installing, testing and commissioning of 11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil upto desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above.				
			Level-2	Energy efficiency level -2 (New level -1)				
		41.15.2	Laying, 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm	Laying of one number armoured / unarmoured power cable 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	246.00	100	24600.00

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		41.15.7	Laying, 1:1 KV grade of size not exceeding 25 sq. mm in the existing item	Laying of one number armoured / unarmoured power cable 1:1 KV grade of size not exceeding 25 sq. mm in the existing RCC hume/stone ware/G.I. pipe/surface in existing trench as required.	Metre	28.00	50	1400.00
70	41.22		cable cover flag stone 200mm width & 32-50mm	Supply of approved type cable cover flag stone 200mm width & 32mm to 50mm thick of required length inclusive of transport as required.	Metre	71.00	100	7100.00
71	42.88		Spreading of metal dust, murum	Collection and spreading of metal dust, murum and 40mm graded hard metal in sub-station yard or as required as mentioned below -				
		42.88.1	Metal dust	Metal dust	Cu. Mt.	1274.00	2	2548.00
		42.88.2	Murum	Murum	Cu. Mt.	847	2	1694.00
		42.88.3	Metal 40 mm	Metal 40 mm	Cu. Mt.	1478	2	2956.00
72	41.13		Rigid PVC single socket and, non-metallic pipe	Supply and laying rigid PVC single socket and, non-metallic pipe ISI marked (IS-4985-2000) 10 Kg/sq.cm class 5 for protection of underground cable/or for water pump delivery side, for water supply complete with necessary clamp coupler, band, tee, elbow etc. in an approved manner excluding cost of excavation etc.				
		41.13.1	50.00mm O.D	50.00 mm O.D	Metre	163.00	20	3260.00
73	46.11		SPLIT AC (Inverter model, Heating & Cooling)	SPLIT AC (inverter model) :- Supply, installation, testing and commissioning of Split type wall mounted air conditioning unit of following capacity including indoor, outdoor unit fitted with inverter based rotary compressor, copper condenser and first charge refrigerant R410A. The condensing unit working range should be capable for providing cooling between +/-5 deg. C to 50 deg. C & heating within 0 deg. C to 15 deg. C including connection of copper pipe of required size upto 3 mtr., insulation, cordless remote control, auto air swing louvers, wall stand for outdoor unit, connection copper lead wire, condensed water outlet pipe 2 mtr. complete etc as required. Outdoor/indoor units should be of same make (brand).				
		46.11.2	SPLIT AC (inverter model, Cooling)	SPLIT AC (inverter model, Cooling only)				
		46.11.2.5	1.8 /2 TR, 3 star	1.8/2 TR star rating 3 star	Each	59500	14	833000
74	38.2		Telephone cable, 0.5 mm PVC insulated cu. conductor	Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
		38.2.2	0.5 mm, 2 Pair	Telephone wire 0.5 mm, 2 Pair	Metre	36	700	25200
		38.2.3	0.5 mm, 4 Pair	Telephone wire 0.5 mm, 4 Pair	Metre	48	700	33600
75	38.3		Telephone cable, 0.5 mm solid annealed cu., jelly filled	Supply installation, testing and commissioning of 0.5 mm size solid annealed copper, jelly filled telephone cables, polythene insulated, petroleum jelly filled with poly-al laminate moisture barrier, polythene sheathed, unarmoured polythene jacketed telephone cables as per DOT specifications of following sizes				
		38.3.1	10 Pair	10 Pair	Metre	173	700	121100
		38.3.2	20 Pair	20 Pair	Metre	248	700	173600
76	38.4		Telephone tag block	Supply, installation testing and commissioning of telephone tag block krone connector with enclosure complete as mentioned below :-				
		38.4.1	10 Pair	10 Pair	each	693	15	10395
		38.4.2	20 Pair	20 Pair	each	1009	15	15135
77	38.6		RJ-11 telephone jack modular	Supply, fixing and testing of RJ 11 telephone jack modular (1 Module)	each	174	125	21750
78	38.9		RJ-45 computer jack (1Module)	Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module)				
		38.9.1	Cat 6 with shutter	RJ - 45 computer socket cat 6 with shutter modular (1Module)	each	288	125	36000
79	38.11		4 Pair un-shielded twisted pair (UTP)	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLSH in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	56	1000	56000

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
80	38.13		Patch cord	Supply, installation testing and commissioning of patch cord as mentioned below :-				
		38.13.2	CAT 6 RJ45, UTP 2metre	CAT 6 RJ45 patch cord UTP 2 metre	each	548	50	27400
		38.13.4	CAT 6 RJ45, UTP 5metre	CAT 6 RJ45 patch cord UTP 5 metre	each	657	75	49275
81	38.15		Patch panel, RJ 45	Supply, installation testing and commissioning of 19" modular patch - 1 U patch panel 24, RJ 45 cat-6 connector	each	11792	6	70752
82	38.16		Patch panel, RJ 11	Supply, installation testing and commissioning of 19" modular telephone patch panel 24 - 1 U with RJ 11 connector	each	11444	6	68664
83	38.17		Rack	Supply, installation testing and commissioning of wall mounting rack, for computer switches/Patch Panel etc complete as mentioned below :-				
		38.17.3	12U cabinet	12U cabinet with min. Dimension 590X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement	each	18211	8	145688
84	43.1		EPABX system	Supply, installation, testing and commissioning of EPABX system consist, no. of extension, no of junction, no. of expandable eport, operating console, current on max. load with ISDN compatible of approved make and labor as required as per specifications.				
		43.1.1	16 Nos. extensions	EPABX system consists of 16 nos. extensions, 8 nos of junction & upto 64 nos. of expandable eport, with one operating console, 1.35 Amp max. current	Each	64894	1	64894
		43.1.3	64 Nos. extensions	EPABX system consists of 64 nos. extensions, 16 nos of junction & upto 128 nos. of expandable eport, with one operating console, 3 Amp max. current	Each	147635	2	295270
85	43.2		Float cum boost charger	Supplying & fixing float cum boost charger for EPABX system of approved make with all necessary material as required as per specifications.				
		43.2.2	25 Amp 48 V	25 Amp 48 V float cum boost charger	Each	31701	1	31701
		43.2.3	50 Amp 48 V	50 Amp 48 V float cum boost charger	Each	52170	2	104340
86	43.3		Essential additional accessories	Supplying, fixing essential additional accessories to EPABX system of approved make with all necessary material as required as per specifications.				
		43.3.1	EPABX E-1 card	EPABX E-1 card	Each	28393	5	141965
		43.3.5	Digital phone	EPABX system digital phone with 2 line display (32 characters) with 8 programmable keys.	Each	4264	30	127920
		43.3.10	CLI phone	4 push button CLI phone.	Each	717	125	89625
87	57.3		Drinkin g Water Cooler	Supply, installation, testing & commissioning of Water Cooler with Eco Friendly Refrigerant, IN-SITU PUF Insulation, Anti-corrosive Pre-coated Body with storage of required capacity				
		57.3.3	80 LITRE	WATER COOLER 80 LITRE	Each	32525	5	162625
88	57.4		Domestic water purifier	Supply, installation, testing & commissioning of Domestic water purifier having RO+UV+MTDS with one number prefilter having minimum water purifying capacity of 16 Ltrs per Hour storage . Installation Type- Wall Mounted/Table Top, suitable for hardness upto 2000mg/L operating input voltage 150-250V AC/50Hz.	Each	24840	5	124200
89	49.1		2 Loop microprocessor	Supply, installation, testing and commissioning of 2 loop microprocessor based intelligent and electronically addressable, modular, loop capacity of 159 detectors. Fire alarm control panel with 5.7 inch touch sc reen LCD display, multiple access levels, 10,000 event history logs in the nonvolatile memory (EEPROM). The panel should be modular microprocessor based in nature. The panel shall have 240V AC power supply, automatic b attery charger, 24 V, ceiled lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30 mints during emergency condition. The panel shall be EN 54/UL certification.	Each	3	188534.00	565602.00
90	49.3		Loop card	Supply installation, testing and commissioning of loop card LSN 0300 A LSN module.	Each	3	47162.00	141486.00


S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
91	49.5		Addressable optical detector	Supply, installation, testing and commissioning of addressable-optical detector with inbuilt isolator, automatic addressing shall be UL/EN54 certified.	Each	10	4929.00	49290.00
92	49.6		Addressable optical thermal detector	Supply, installation, testing and commissioning of Addressable-optical thermal detector with inbuilt isolator, automatic addressing shall be UL/EN54 certified	Each	10	5654.00	56540.00
93	49.7		Addressable automatic dual LED smoke detector	Supply, installation, testing and commissioning of addressable- automatic dual LED smoke detector with two integrated light-scattering smoke sensors using LEDs with different colors/wavelengths (blue/infrared) to avoid false alarm & should comply to test fire 1, Inbuilt Isolator, automatic addressing shall be UL/EN54 certified	Each	200	6300.00	1260000.00
94	49.10		Indoor addressable manual break glass unit	Supply, installation, testing and commissioning of indoor addressable manual break glass unit (double action) with inbuilt isolators, with flexible network structures & necessary fixing arrangements with key complete as required shall be UL/EN54 certified	Each	3	5224.00	15672.00
95	49.13		Outdoor standalone loop powered detector base	Supply, installation, testing and commissioning of outdoor standalone loop powered detector base sounder with inbuilt isolators & with 32 different tone variants selection options & adjustable sound pressure by 5 levels, the sound pressure 92.1 dB(A), shall be UL/EN54 certified	Each	3	11577.00	34731.00
96	49.19		Response indicator	Supply, installation, testing and commissioning of response Indicator shall be UL/EN54certified	Each	10	267.00	2670.00
97	53.3		Amplifiers	Amplifiers				
		53.3.4	240W power amplifier with 100,70V speaker OP	Supply, installation, testing and commissioning of 240W power amplifier with 100,70V speaker op, combination XLR/RCA line in line out connectors. Speaker OP short circuit protection.(with require mounting arrangement)	Each	53845	1	53845
98	53.5		Speakers	Speakers				0
		53.5.5	40W wall mount with max SPL1M/1W 86dB	Supply, installation, testing and commissioning of 40W wall mount with max SPL1M/1W 86dB. Frequency response of 100Hz-20KHz with a dispersion angle of 160 deg. The speaker should have tapings at 40W/20W/10W (with require mounting arrangement)	Each	17361	2	34722
99	54.27		8 port PoE switch with 2 SFP ports	8 port PoE switch with 2 SFP ports				0
		54.27.1	8 port PoE switch with 2 SFP ports	Supply, installation testing and commissioning of 8 port PoE switch with 2 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP cat. 5, cat. 5e (100 m max.), full/half-duplex for 10/100 MBPS, full-duplex for 1000 MBPS, auto MDI/MDIX adjustment for all twisted-pair ports, switching capacity, 40 GBPS, maximum 64 bytes packet forwarding rate, 14.88 MBPS, ports 1 to 8 compliant with 802.3at	Each	23024	1	23024
100	15.1		Surface PVC conduit	Supplying and fixing PVC conduit as required confirming to IS 9537 (Part-3), ISI marked along with accessories on surface etc. as required.				0
		15.1.2	25mm MMS	PVC conduit 25 mm. (MMS)	Per Mtr.	67	70	4690
101	38.11		4 Pair unshielded twisted pair (UTP)	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLSH in existing surface/concealed, steel/PVC. conduit/casing-n-capping as required.	Per Mtr.	56	200	11200
102	38.9		RJ-45 computer jack	Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module)				0
		38.9.2	Cat 6 tool less connection	RJ - 45 computer socket cat 6 tool less connection (1Module)	Each	443	13	5759
103	38.13		Patch Cord	Supply, installation testing and commissioning of patch cord as mentioned below :-				0
		38.13.1	CAT 6 RJ45, UTP 1metre	CAT 6 RJ45 patch cord UTP 1 metre	Each	436	13	5668
		38.13.3	CAT 6 RJ45, UTP 3metre	CAT 6 RJ45 patch cord UTP 3 metre	Each	601	13	7813
104	38.14		HDMI connector & braided cord	Supply, installation testing and commissioning of High-Speed HDMI corrosion-resistant connector & braided cable, Supports Ethernet, 3D, 4K video, computers and other HDMI- enabled devices Black as required to complete the job as mentioned below :-				0
		38.14.5	15 Metre, HDMI cord	15 Metre, HDMI cord	Each	10702	3	32106

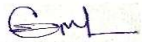
S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
105	38.15		Patch panel, RJ 45	Supply, installation testing and commissioning of 19" modular patch - 1 U patch panel 24, RJ 45 cat-6 connector	Each	11792	1	11792
106	38.17		Rack	Supply, installation testing and commissioning of wall mounting rack, for computer switches/Patch Panel etc complete as mentioned below :-				0
		38.17.3	12U cabinet	12U cabinet with min. Dimension 590X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement	Each	18211	1	18211
			Interactive Panel	Supply, installation, testing and commissioning of Interactive Panel having Resolution 3840 (H) x2160 (V), Display Color 1.07 Billion Colors, Min. Brightness 400 cd/m ² , LCD (with LED backlight), View Angle R/L 178 (Min.), U/D 178 (Min.), speaker output 20 W x 2, HDMI Input 2, HDMI Output 1, Multi-Media USB 4 (2 Front 3.0 + 1 x3.0 rear, 1 x2.0 rear), RS 232 - 01, RJ-45 -Yes(LAN) / Ethernet, Touch input 02, Bluetooth BT 5.0, WIFI 6, VGA In 1, Line Out 1, MIC 1, DP 1.2 1. C over Glass anti glare 9 Mohs, Touch Resolution 32768 x32768, Touch Accuracy 1 mm, having Annotation Over Any Source, Response Time <5 ms, having Palm Detection, Pen and Touch Differentiation, Touch - 20 points (Drawing, Annotation, Painting, Eraser, Highlighter, PDF Viewer, PPT Viewer, Browser, Movies & Image Viewer, External Source annotation), Files like PDF or objects can be saved in a private folder, 4 Drawing through split screens / Export and Import of files from mails / pen-drive or internet / Multimedia feature, Compatibility Windows 11 / Linux/Android /Chrome, OS Version ANDROID 11.0, Processor A 55 Quadcore 1.55 Ghz, Flash 32 GB EMMC 5, RAM 4 GB DDR 4 or equivalent latest software version and specification, having accessories- User manual, wireless key board and mouse, remote control, power cable, touch cables, HDMI cable, Touch pens (2 stylus, 1 extendable), VESA Standard (Wall mount) / 3 Year warranty.				0
			75 Inch	75 Inch Interactive Panel	Each	170363	1	170363
			OPS	Supply, installation, testing and commissioning of OPS (Open pluggable specification) with Core i5 Processor, 512 GB SSD, 8 GB RAM, Latest Windows.	Each	61730	1	61730
107	48.1		DG set, Water cooled	Supply, installation, testing and commissioning of 'Silent Type' diesel generating set comprising with diesel engine water cooled, Synchronous alternator, AMF control panel single/three phase, acoustic enclosure, battery with charger and related accessories including incoming cable 10 mtr, exhaust pipe 'B' class with insulation as per CPWD specification and CPCB - IV Norms. Note:- 1. Two No Cu plate (600mmx600mmx3mm) earthing and Two No GI plate (600mmx600mmx6mm) earthing with GI/Cu Strip to be done for each installation as per specification and will be separately paid. 2. Suitable size of PCC/RCC platform to be made separately as per requirement and instruction of Engineer-in-charge.				
		48.1.6	3 Phase, 30 KVA, Water cooled	Supply, installation, testing and commissioning of diesel generating set three phase, water cooled with AMF control panel, 30 KVA, 415V.	Each	974177	1	974177
108	54.5		2MP IP varifocal MFZ dome camera	2MP IP varifocal MFZ dome camera				
		54.5.1	IP dome camera	Supply, Installation testing and commissioning of the IP dome camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 2.8 -12 mm varifocal lens, and a waterproof (IP66) enclosure. As a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. illumination:-0.1 lux @F1.2, AGC ON, 0 lux with IR video compression :- H.264, noise reduction: 3DNR,backlight compensation :- BLC/HLC/DWDR, encode mode:- CBR/VBR (freely adjustable in CBR, 5 levels in VBR).	Each	16280	2	32560
109	54.6		2MP IP varifocal MFZ bullet camera	2MP IP varifocal MFZ bullet camera				


S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		54.6.1	IP bullet camera	Supply, installation testing and commissioning of the IP bullet camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 2.8 -12 mm Verifocal lens, and a waterproof (IP66) enclosure. As a true day/night solution, the camera shall use Smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. Illumination:-0.1 lux @F1.2, AGC ON, 0 lux with IR video compression :- H.264, noise reduction: 3DNR, backlight compensation :- BLC/HLC/DWDR, encode mode:- CBR/VBR (freely adjustable in CBR, 5 levels in VBR).	Each	17224	18	310032
110	54.17		4 channel NVR with 1 SATA	4 channel NVR with 1 SATA				
		54.17.1	4CH network video recorder	Supply, installation testing and commissioning of 4CH network video recorder with real-time recording: up to 4 MP resolution live view, preview and playback/up to 4 channels at 1080p, within built PoE, up to 1TB supports complete with UL certification	Each	41629	1	41629
111	54.27		8 port PoE switch with 2 SFP ports	8 port PoE switch with 2 SFP ports				
		54.27.1	8 port PoE switch with 2 SFP ports	Supply, installation testing and commissioning of 8 port PoE switch with 2 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP cat. 5, cat. 5e (100 m max.), full/half-duplex for 10/100 MBPS, full-duplex for 1000 MBPS, auto MDI/MDIX adjustment for all twisted-pair ports, switching capacity, 40 GBPS, maximum 64 bytes packet forwarding rate, 14.88 MBPS, ports 1 to 8 compliant with 802.3at	Each	23024	1	23024
112	54.30		Hard disk	Hard disk				
		54.30.	2 TB	Providing & fixing of 2 TB hard disk	Each	6414	1	6414
113	57.2		LED TV	Supply, installation, testing & commissioning of L.E.D. Television (4K L.E.D. Display O.S. Webos /Android or equivalent, minimum 50 Hz refresh rate Min. 20 W speaker, Wifi/bluetooth enabled, minimum 2 HDMI & 1USB Port, i/c remote and wall/table top accessories)				
		57.2.1		32"	Each	20257	2	40514
114	38.11		4 Pair un-shielded twisted pair (UTP)	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	Metre	56	800	44800
115	15.1		Surface PVC conduit MMS	Supplying and fixing PVC conduit as required confirming to IS 9537 (Part-3), ISI marked along with accessories on surface etc. as required.				
		15.1.2	25 mm. MMS	PVC conduit 25 mm. (MMS)	Metre	67	300	20100
116	16.1		Concealed PVC conduit HMS	Supply and fixing PVC conduits required confirming to IS 9537 (Part-3), ISI marked along with the accessories in concealed system etc. as required.				
		16.1.2	25 mm. HMS	PVC. conduit 25 mm (HMS)	Metre	74	300	22200
117	31.13		Street light with high power LED system	Supply and fixing street light with high power LED of 3 to 6 Watt each on existing bracket assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy > 120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70. The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347 i/c connection wire, testing etc. to complete the job.				
		31.13.1	40 W	40Watt to 48Watt, color temp 3000-6500k as required.	Each	6105.00	15	91575.00
		31.13.2	60 W	60Watt, color temp 3000-6500k as required.	Each	9791.00	5	48955.00
118	42.3		Steel tubular pole	Supply of steel tubular pole swaged type as per IS:2713-1980 complete with base plate and top Canopy				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
		42.3.9	SP-26 - 9.00 metre	410 SP-26 - 9.00 metre	Each	9933.00	20	198660.00
119	41.1		XLPE insulated power cable, al. conductor	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				
		41.1.3	Unarmoured 2 core	Unarmoured 2 core				
		41.1.3.1	2.5 sq. mm.	2.5 sq. mm.	Metre	42.00	200	8400.00
		41.1.6	Armoured 3 core	Armoured 3 core				
		41.1.6.1	6 sq. mm.	6 sq. mm.	Metre	112.00	700	78400.00
		41.1.6.2	10 sq. mm.	10 sq. mm.	Metre	142.00	700	99400.00
120	41.14		Double wall corrugated pipes (DWC) of HDPE	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II - marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material, ramming and making the surface good.				
		41.14.1	50.00mm outside dia.	50.00mm outside dia.	Metre	133.00	20	2660.00
121	41.15		Cable laying	Cable laying				
		41.15.1	Laying, 1.1KV grade of size not exceeding 25 sq. mm	Laying of one number armoured / unarmoured power cable 1.1KV grade of size not exceeding 25 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	Metre	230.00	1400	322000.00
		41.15.7	Laying, 1:1 KV grade of size not exceeding 25 sq. mm in	Laying of one number armoured / unarmoured power cable 1:1 KV grade of size not exceeding 25 sq. mm in the existing RCC hume/stone ware/G.I. pipe/ DWC Pipe/	Metre	28.00	20	560.00
122	27.8		MCB 'C' Series, 240/415V, 50 Cycle, 10kA/15kA	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts,50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures :-				
		27.8.1	Single pole	SINGLE POLE				
		27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	Each	263.00	20.00	5260.00
123	27.1		MCCB 3Ph, 3 Pole, 50Hz, 415V	Supply of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS – 8828				
		27.1.1	MCCB upto 63,	MCCB current rating – upto 63 Amp, 10kA, 3P 415V AC	Each	2721.00	2	5442.00
124	27.11		SPN MCB DB	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				
		27.11.1	2 Way single door	2 Way single door	Each	447.00	20	8940.00
125	28.4		Fixing of MCB/MCCB/Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
		28.4.1	MCB/Isolator SP/DP	MCB/Isolator SP/DP	Each	22.00	20	440.00
		28.4.2	MCB/MCCB Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	Each	28.00	2	56.00
126	27.23		Steel enclosure, neutral bar suitable for MCB/RCBOs/ MCCB	Supply & fixing of approved make accepted standard sheet steel enclosure (dust protected) duly powder coated paint neutral bar suitable for MCB/RCBOs/MCCB of capacity as required etc. complete as per specification (exclusive of M.C.B./ MCCB/RCBOs)				
		27.23.2	For MCCB	For MCCB				
		27.23.2.1	63A/100A, 3P/4P enclosure	63Amp/100Amp, 3P/4P enclosure	Each	1225.00	2	2450.00
127	28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCBDB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-				

S.No.	SOR Item NO.	SOR sub item No, if any	Item Name	Description of Item	Unit	Quantity	Rate	Amount
1	2	2	4	5	6	7	8	9
			For item	For item no :-				
		28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	Each	268.00	20	5360.00
				Total Electrical				12850480
				Total (Civil+ Electrical)				63300423
				Say		633.00		Lakh


SUB ENGINEER (CIVIL)
PWD.(B) SIDHI


ASSTT ENGINEER(CIVIL)
PWD(B) SIDHI


EXECUTIVEENGINEER
PWD (B) SIDHI