

SCHEDULE (B.O.Q.) FOR THE PROPOSED CONSTRUCTION OF 03 TRADE ITI CAMPUS (ITI COLLEGE, 60 SEATED GIRLS HOSTEL , H-TYPE 02 NOS , I- TYPE -04 NOS WITH SIDE DEVELOPMENT AT SINGHANA DIST. DHAR (M.P.)

SCHEDULE / BILL OF QUANTITY								
S.NO	SOR		ITEM	DIS	UNIT	P.A.C.	822.18	LACS
					QTY	RATE	AMOUNT	
BELOW Plinth Level								
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.	100Sqm	56.36	803.00	45257
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	1873.39	147.00	275388
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.	Cum	276.60	287.00	79384
		2.7.1	OR	Ordinary rock	Cum	151.47	828.00	125417
4	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 kind of soil	Cum	153.07	30.00	4592
		2.25.2	Rock	Ordinary or hard rock.	Cum	428.07	53.00	22688
5	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	33.88	4403.00	149174
		4.1.2.2	m-10	M-10 GRADE CONCRATE	Cum	134.8	3808	513318
		4.1.1.4			Cum	241.82	3890	940680
6	4.3.1			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	284.64	169	48104
7	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	591.57	6153.00	3639930
8	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				
		5.16.6	TMT/TMX	Thermo-Mechanically Treated bars. (TMT/TMX) FE 500 or more conforming to	Kg	203173.96	77.00	15644395
9	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	sqm	1116.00	190.60	212710
		5.9.2	W alls	Walls (any thickness) in cluding attached pilasters butter esses, plinth beams and string courses etc.				

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
		5.9.2.1	Upto plinth level	Uptoplinthlevel.	sqm	2751.09	219.00	602489
10	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	795.45	95.00	75568
11	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	582.14	393.00	228781
		2.27.2	Selected soil	Supplying and filling in plinth with soil (other than 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	1317.31	331.00	436030
12	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				
					cum	270.80	672.00	181978
13		2.32		SOR Item No 2.32 Page No.27 Preconstruction antitermite treatment to the building under construction by providing Staie 1: Treating the bottom and the sides (upto 30cm hight of the excavated trench @litter per sqm of the surface area. Staie 2: After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment ~ .5 litter per sqm. of the vertical surface of the substructure for each side. Staie 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors @. 0 litres/Sqm.Staie 4: Pumping the emulsion in plinth masonr y on filling side at floor junction ~5 litres/Sqm. Staie 5: Pumping the emulsion from outer side of the plinth below ground alround the masonry <@.0 litres/Sqm as per L.S. 8944 Emulsion. (1 Chlorpyrifos: 19 water) with five years service guarantee (Measurements to be taken for plinth area)				
				Note - Treatment should start when foundation trenches and pits are ready to take bed concrete or leveling course in foundations. Laying of bed concrete should start when the chemical emulsion has been absorbed by the soil and the surface is reasonably dry. Treatment should not be carried out when it is raining or when soil is wet with rain or subsoil water. This also applies to filled up soil within the plinth area before laying the subgrade for flooring.	SQM	2268.70	136.00	308543
13	4.17		Plinth protection by C.C.	Making plinth protection 50mm thick of cement concrete grade M10 over 75mm bed of dry metal ballast 40mm nominal size well rammed and cons- olidated and filled with sand including finishing the top smooth (with 20mm nominal size graded stone aggregate.				
					Cum	170.60	351.00	59881
14	5.2		RCC in walls, columns, pillars etc	Reinforced cement concrete work (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	302.03	6231.00	1881949

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
15	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	856.78	6541.00	5604198
16	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	23.20	65.41	1518
					cum	9.08	130.82	1188
					cum	12.85	62.31	801
					cum	141.85	124.62	17677
					cum	50.34	186.93	9410
					cum	12.28	196.23	2410
17	5.17		Reinforcement above floor two level	Add extra for providing reinforcement above Floor two level for every additional floor or part thereof.				
					KG	16585.20	0.20	3317
					KG	16467.60	0.40	6587
					kg	1755.2	0.60	1053
18	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	3025.93	439.60	1330199
		5.9.5	Lintels, Beams and Cantilevers	Lintels, beams, girders, bressumers and cantilevers	sqm	2635.47	356.00	938227
		5.9.6	Columns	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	2796.67	471.20	1317791
		5.9.14		Vertical and horizontal fins individually or forming Box louvers band, facias and eaves boards	sqm	448.59	643.40	288623
		5.9.15		Extra for shuttering in circular work or any other geometrical shape (20% of respective centering and shuttering items).	sqm	43.52	94.24	4101
		5.9.16		Small lintels not exceeding 1.5m clear span, mouldingas incornices, window, sills, courses, bands, copings, bed plates, anchor blocks and the like.	sqm	54.00	191.00	10314
		5.9.17		Cornices and mouldings	sqm	317.62	565.00	179455
		5.9.18		Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like.	sqm	33.00	529.00	17457
		5.9.19	Weather shade and chajjas	Weather shade, Chajjas, corbels etc., including Edges.	sqm	335.93	534.20	179454
		5.9.7	Staircase	Stairs, (excluding landings) except spiral- Staircases.	sqm	222.33	435.70	96869
19	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 prior to application of jointing mortar. Block should be gently pressed down using a rubber mallet to expel out entrapped air and the masonry shall be cured two days. 1st layer of masonry block shall be placed on perfectly leveled surface, which if required, shall be leveled				

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				or floor level. Masonry shall have 75mm thick RCC band with M-15 cement concrete having 2 bars horizontal of 8 mm dia with 8mm dia U- shaped single stirrup @ 300mm C/C. Such horizontal bands shall be placed at sill level and lintel level where there is a provision of windows in walls otherwise placed at vertical interval of 1.8 meter in vertical direction shall be spaced at 4.5 meter in horizontal direction. Vertical bands shall be placed along jams (vertical member of chowkhats) and extend upto lintel levels to arrest cracking at corner openings. RCC bands shall be measured with AAC block masonry. Rates include all materials including steel bars, wastages, scaffolding and all labour etc. complete.				
		6.26.1	Polymer modified mortar	AAC Masonry in polymer modified mortar				
					Cum	1202.79	5500.00	6615345
20	6.28		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	193.27	55.00	10630
					Cum	129.75	110.00	14273
					Cum	104.18	165.00	17190
21	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	2043.10	116.20	237408
22	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	4126.08	117.00	482751
23	9.134		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.				
		9.134.2	1.0 mm	1.0 mm thick.	sqm	302.40	691.00	208958
24	9.169		Factory made solid wood plastic composite (WPC) doorframes	Providing and fixing factory made single extruded WPC(Wood Polymer Composite) solid door/window/ceosetory 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 resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S. hold fast/lugs/S.S.dash fasteners of required dia and length complete as per direction of Engineer-in-Charge. (M.S. hold fast/lugs or S.S. dash fasteners shall be paid separately)				
		9.169.2	100 mm X50 mm	Single rebate (100 mm X50 mm)	RM	171.60	720.00	123552

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
31	9.203		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 pneumatic gun, of depth not less than 25 mm on all edges of shutters including all material and labour complete as per specification and direction of engineer-in-charge. Spacing of finger joints in wood as above shall not be less than 50cm. Each shutter shall be factory made to the exact opening size within frame of 35mm thick including 4 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary.				
		9.203.2	35mm 3 hinges		SQ.m.	322.82	3171.00	1023662
25	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 with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-InCharge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)				
		9.170.2	24 mm thick	24 mm thick WPC (Wood polymer composite) solid plain flush door shutter	SQ.m.	24.36	2250.00	54810
		9.170.3	30 mm thick	30 mm thick WPC (Wood polymer composite) solid plain flush door shutter	SQ.m.	44.94	3693.00	165963
26	9.21		Extra for lipping	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sq.m.	203.96	401.00	81788
36			9.24	SOR Item No 9.24 Page No. 213 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	203.96	93.00	18968
37			10.26	SOR Item No 10.26 Page No. 182 Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete.				
			10.26.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides.	sqm	135.22	1334.00	180383
27	10.27		Glass panes/ steel sheet/ fibre sheet	Providing and fixing glass panes/ steel sheet/ fibre sheet with putty and glazing clips in steel doors, windows, clerestory windows all complete.				
		10.27.1	4.0 mm glass	With 4.0 mm thick glass panes	sqm	3.96	792.00	3136
28	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 steel primer all complete.				
		9.43.1	Fixed to steel windows	Fixed to steel windows by welding.	Kg.	5763.95	119.00	685910

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
43			10.12	SOR Item N0 10.12 Page No. 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 surface as directed by Engineer-in-charge:				
			10.12.1	Profile C of 1.60mm thick single rebate of size 100mmx50mm				
			10.12.2.1	Fixing with adjustable lugs with split end tail to each jamb.	Rm	248.80	402.00	100018
29	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-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
		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				
		21.1.2.2	Powder coated	Powder coated aluminium (minimum thickness of powder coating 50 micron)				
					Kg.	1811.50	416.00	753584
49			21.1.2	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 I neoprene gasket required (Fittings shall be paid for separately).				
			21.1.2.2	Powder coated aluminium (minimum thickness powder coating 50 micron)	KG	1694.70	484.00	820235
50				Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory wind ows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm all complete.				
			9.46	With 12 mm mild steel U beading.	Sqm	118.98	681.00	81025
30	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	60.80	774.00	47059
		21.3.2		With float glass panes of 5.0 mm thickness (weight not less than 12.50 kg/sqm)	sqm	290.57	948.00	275460
31	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	67.40	259.00	17457
32	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				
					RM	1018.60	53.00	53986
33	21.15		Aluminium casement windows fastener	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
		21.15.2	Powder coated	Powder coated minimum thickness 50 micron aluminium.				
					EACH	176.00	57.00	10032

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34	21.19			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.				
					EACH	137.94	448.00	61797
35	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	160.00	148.00	23680
36	13.8		6 mm cement plaster	6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)				
					Sqm	5077.74	144.00	731195
37	13.10.			NEAT CEMENT PUNNING	Sqm	506.06	30.00	15182
38	13.82		Polymer modified cement based plaster	Providing and plastering over AAC masonry wall with polymer modified cement based readymix factory controlled mortar with self curing, eco- friendly, wet premix in a mechanical mixer in thickness as specified below, and covering area of 2.04 kg per sqm/mm thickness. Readymix mortar having tensile adhesive strength 0.8 N/mm2 in 28 days and long lasting thermal insulation according to				
				European norm, (EN13501-2) suitable for high performance on external & internal AAC masonry walls, may be used. Rate includes cleaning of walls and scaffolding etc. complete. Dampening or slight wetting of the wall surface prior to application of plaster should be done. Curing of plaster should be done for minimum 3 days. The Bulk density of ready mix plaster may vary from 1300 to 1600 Kg/cum, Water powder ratio (as per manufacture's direction) may vary from 18-22 % by weight or as specified by the manufacturer and compressive strength may vary from 8-9 Mpa.				
		13.82.1	6 mm	6 mm thick plaster for internal walls	Sq.m.	8398.39	146.00	1226165
		13.82.2	8 mm	8 mm thick plaster for internal walls	Sq.m.	4523.69	180.00	814264
39	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				
					Rm	702.70	99.00	69567
40	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)				
					SQ.m.	387.80	203.00	78723
41	5.24		Plaster drip course/ groove	Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.				
					Rm	947.00	18.50	17520
42	11.64			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-				
		11.64.2		11.64.2 Granite Stone Granite Stone of approved shade.	Rm	9.60	3422.00	32851

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
43	11.66		Concrete interlocking paver block	Providing and laying factory made machine pressed precast cement concrete interlocking paver block of any shape and size conforming to IS:15658- 2006 and ISI marked of 60 mm thickness, M-30 grade with grey cement and pigment all as specified. Made by block making machine with strong vibratory compaction, laid in required colour and pattern over and including 50mm thick compacted bed of stone dust, filling the joints with sand etc. all complete as per the direction of Engineer-in-Charge.				
					Sq.m.	30.69	642.00	19703
68			11.51	SOR Item No 11.50 Page No. 341 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	27.46	644.00	17684
44	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.				
					Sq.m.	318.96	880.00	280685
45	11.57		Tactile tile	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having water absorption less than 0.05% and conforming to IS: 15622 of approved make in all colours and shades for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 sand) in all shapes and patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	sqm	86	1307	112088
46	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.				
					Sq.m.	342.72	698.00	239219
47	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)				
					Sq.m.	2008.57	1174.00	2358061
48	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.				
		11.38.2	20 mm thick	20 mm thick	Sq.m.	204.67	1177.00	240894
49	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.	227.85	1104.00	251546

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
50	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	SQM.	22.79	1093.00	24909
51	11.80		Vitrified floor-tiles full body	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish 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 flooring laid on 20mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete				
		11. 80.1	Light colour	In light colour and shades as ivory, beige blanco, grey etc.				
		11. 80.1.3	600X600	(c) Size 600X600 mm thickness 11-12mm (to be used heavy duty indoor areas of non residencial buildings only such as schools, hostels, libraries hospitals, institutions, offices etc.)				
					Sq.m.	169.02	1349.00	228008
52	11.81		Vitrified floor-tiles full body skirting, riser	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish 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, riser laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete				
		11. 81.1	Light colour	In light colour and shades as ivory, beige blanco, grey etc.				
		11. 81.1.2	600X600	(b) Size 600X600mm thickness 9-10mm	Sq.m.	11.50	1196.00	13754
53	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	11924.30	74.00	882398
54	13.48		Acrylic emulsion	Wall painting by any mechanical or manual means with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50				
		13.48.2	Two coats	Two coats	SQM	11909.22	56.00	666916
55	13.47		Acrylic distemper	Distempering by any mechanical or manual means with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less				
		13.47.2	Two coat	Two coats.	SQM	807.53	32.00	25841
56	13.67		Primers	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
		13.67.2	On wall	With ready mixed red oxide zinc chromatic on steel/ iron works having VOC content less than 250 grams/litre	SQM	216.84	24.00	5204
		13.67.3	On wall	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	SQM	3024.56	24.00	72589
57	13.53			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	4096.61	130.00	532559
58	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.				

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
					Sqm	567.10	53.00	30056
59	10.25			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. (For payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	KG	639.24	582.00	372038
60	9.71		S.S. casement stays straight peg type	Providing and fixing stainless steel casement stays (straight peg type) conforming to IS specification with necessary screws etc. complete.				
		9.71.2	250 mm	250 mm weighing not less than 150 gms.	each	60.00	61.00	3660
61	9.73		S.S. butt hinges	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
		9.73.1	125mm	125x64x1.90 mm	each	240.00	67.00	16080
		9.73.2	100 mm	100X58X1.90 mm	each	72.00	59.00	4248
62	9.76		Stainless steel hanging type floor	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.				
					each	176.0	103.00	18128
63	9.65		S.S. sliding door	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:				
		9.65.1	300 mm	300x16 mm	each	234.0	389.00	91026
		9.65.2	250 mm	250x16 mm	each	57.0	326.00	18582
64	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	390.0	60.00	23400
		9.69.2	100 mm	100 mm	each	10.0	54.00	540
65	9.68			Providing and fixing ISI marked stainless steel door latches with screws etc. complete :				
		9.68.2		9.68.2 250mm 250x20x6 mm	each	102.0	173.00	17646
66	9.66		S.S. tower bolt	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
		9.66.1	250 mm	250x10 mm	each	43.00	148.00	6364
		9.66.2	200 mm	200x10 mm	each	183.00	93.00	17019
		9.66.3	150 mm	150x10 mm	each	10.00	71.00	710
67	9.95		Aluminium hydraulic door closer door weight upto 36 kg to 80 kg	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed	EACH	88.00	1186.00	104368
68	10.23		Hand rail	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
		10.23.1	M.S. tube.	M.S. tube.	kg	844.31	117.00	98784
		10.22.2	Frame, ladder, railing	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	KG	1014.76	105.00	106550
69	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	1584.00	103.00	163152

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
70	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 area. d) 1Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) (with 5 years service guarantee)	sqm	120.56	440.00	53046.40
71	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	59.66	3141.00	187392
72	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				
		22.33.1	Vertical surface	For vertical surface two coats @ 0.70 kg per sqm	sqm	210.22	412.00	86611
		22.33.2	Horizontal surface	For horizontal surface one coat @1.10 kg per sqm.	sqm	462.50	319.00	147538
73	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.	sqm	4.61	6180.00	28490
74	9.1		Wood work in frames of doors, windows	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or dash fastener shall be paid for				
		9.1.2	Sal wood	Sal wood	Cum	0.28	71309.00	19967
75	11.62		Expansion hold fasteners on C.C./ R.C.C./ Brick masonry	Providing and fixing expansion hold fasteners of wedge expansion type on C.C. / R.C.C./ Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.				
		11.62.3	12 mm.	Fastener with threaded dia 12 mm.	Each	256.00	46.00	11776
76	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 :				
		13.54.1	Painting wood work	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture	sqm	29.28	69.00	2020

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
77	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 class				
		9.203.3	25mm 3 hinges (cupboard)	25mm thick (for cupboard) including 3 nos. 75mm long, ISI marked heavy weight (2.5mm thick) nickel plated bright finished M.S. piano hinges with necessary screws.	sqm	140.70	3005.00	422804
78	9.87		Special quality brass cupboard or wardrobe locks	Providing and fixing special quality bright finished brass cupboard or wardrobe locks with four levers including necessary screws etc. complete (best make of approved quality) :				
		9.87.2	50 mm	50 mm	each	64.00	150.00	9600
79	9.1		C.P. brass cupboard knobs	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	each	64.00	68.00	4352
80	9.129		Magnetic catcher in cupboard /ward robe shutters	Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc. complete (Best make of approved quality).				
		9.129.1	Triple	Triple strip vertical type.	each	128.00	28.00	3584
81	9.41		Curtain rod chromium plated brass plate	Providing and fixing of 1.25 mm thick chromium plated brass plate, with two chromium plated curtain rods brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:				
		9.41.2	20 mm	20 mm dia.	metre	67.20	377.00	25334
82	22.14		Roof grading	Grading roof for receiving water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)				
		22.14.1	C.C. 1:2:4		Cum	53.83	6569.00	353609
83	10.3		Collapsible steel shutters	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer. Rate includes recess cutting in floor and making good the same wherever required.	sqm	33.72	4132.00	139331
84	10.6		M.S.rolling shutters	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to I.S. 4454- part-1 and M.S. top cover of required thickness for rolling shutters.	sqm			
		10.6.1	1.2 mm thick top cover	80x1.20 mm M.S. laths with 1.20 mm thick top cover.	sqm	15.36	2200.00	33792
85	10.8		Extra for grilled rolling shutters	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-Charge. (Area of grill to be measured).	sqm	3.84	308.00	1183
86	10.9		Ball bearing for rolling shutters	Providing and fixing ball bearing for rolling shutters.	Each	2.00	366.00	732

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
87	13.37		Writing board green	Providing and fixing writing board green writing with chalk (regular modified polyster coated steel surface). of sizes.	Each			
		13.37.2	1200x2400mm	size 1200mmx2400mm	each	7.00	9730.00	68110
88	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				
		13.27.1	Chicken mesh in plaster	G.I. chicken mesh as per ISI specification and in the required width with 50mm long Bombay nails before plastering upt 10 meter height.	Sqm	957.04	62.00	59336
89	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 high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer-in- Charge.				
		11.22.1	Marble granite	Raj Nagar plain/White Marble/Udaipur Green	SQM	81.50	1797.00	146456
		11.22.2	Granite fine grained	Granite fine grained dark crystal of other colours and various patterns	SQM	148.55	2356.00	349984
		11.22.3	Granite coarse grained	Granite coarse grained light black/ light red/white with crystal of other colours and various patterns	SQM	48.43	2113.00	102328
		11.22.5	Cuddpah	Cuddpah stone	SQM	126.00	1279.00	161154
90	11.29		Granite wall lining (Polished)	Granite work gang saw cut (polished and machine cut) of thickness 18mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement: 3 sand) including pointing with white cement mortar 1:2 (1 white cement: 2 marble dust) with an admixture of pigment to match the marble shade: (To be secured to the backing by means of				
		11.29.1.1		Area of slab upto 0.50 sqm	SQM	58.59	2919.00	171024
91	11.30		Mirror polished pre moulded granite flooring 18 mm thick	Providing and laying gang saw cut 18 mm thick, mirror polished premoulded (wherever required) and pre polished machine cut granite stonework in flooring of required size shape of approved shade, color and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 Cement: 4 sand) including grouting the joints with white cement mixed				
		11.30.1.1	Stone slab	Area of slab upto 0.50 sqm	SQM	94.68	2642.00	250145
		11.30.2	Stone slab	Area of slab upto 0.50 sqm				
92	11.48		Extra for stone work in stairs	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre.	sqm	64.80	10.00	648
93	11.47		Extra for nosing	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	meter	174.00	139.00	24186
94	11.40		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.				
		11:40:01		Granite work.	meter	608.90	164.00	99860
95	11.42		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	34.00	232.00	7888
96	11.82		Vitrified tiles (PGVT)/(GVT)	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium quality including grouting the joints with white cement and matching pigments etc. complete				
		11. 82.1	For floor	For floor glossy/ rustic /stain/matt finished laid on 20mm thick cement mortar 1:4 (1 cement:4sand)				
		11. 82.1.1	600X600	Size 600X600 mm thickness 9-10 mm	sqm	204.85	1140.00	233529

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
97	11.83		Vitrified tiles (PGVT)/(GVT) in skirting, riser	Providing and laying digital print random design(PGVT)/(GVT) vitrified tiles in different sizes with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality / premium in skirting, riser laid our 12mm thick cement mortar 113 including grouting the joints with white cement and matching pigments etc. complete				
		11. 83.1	For skirting	For skirting, risers etc. glossy/ rustic /stain/matt finished in all colours and shades				
		11. 83.1.2	600X600	Size 600X600 mm thickness 9-10 mm	sqm	772.07	1129.00	871667
98	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	1578.20	132.00	208322
99	9.105		Chromium plated brass handles	Providing and fixing chromium plated brass handles with necessary screws etc. complete:				
		9.105.1	125 mm	125 mm	SQM	128.00	241.00	30848
100	21.20		Heat /light control film to frosted glass	Providing and fixing 50 micron thick Frosted heat /light control film to window/door glazing with complete accessories as per direction of Engineer-in-charge of approved	SQM	28.80	518.00	14918
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 :				
		17.1.1	Size 580x440mm	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each	11.00	2995.00	32945
102	17.2		W.C. European type PVC flushing cistern	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
		17.2.1	White plastic seat cover and lid	W.C. pan with ISI marked white solid plastic seat and lid	each	10.00	3036.00	30360
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	3.00	2187.00	6561
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 :				
		17.14.1	With drain board	Kitchen sink with drain board				
		17.14.1.1	Depth 250mm	510x1040 mm bowl depth 250mm.	each	10.00	8074.00	80740
		17.14.2	Without drain board	Kitchen sink without drain board				
		17.14.2.1	Depth 225mm	610x510 mm bowl depth 200 mm.	each	2.00	4583.00	9166
105	17.27		Urinal flat back (half stall)	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm.	each	6.00	2243.00	13458
106	17.28		Squatting plate urinal	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	6.00	1564.00	9384

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
107	17.32		soil, waste and vent pipes	Providing and fixing soil, waste and vent pipes:				
		17.32.2	CI (Spun cast)	Spun cast iron socket and spigot (S&S) pipe as per IS: 3989				
		17.32.2.1	75 mm dia	75 mm dia with wall thickness of 3.5 mm	metre	330.00	840.00	277200
		17.32.2.2	100 mm dia	100 mm dia with wall thickness of 4 mm	metre	220.00	1020.00	224400
108	17.34		M.S. holder	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :				
		17.34.1	75 mm dia	For 75 mm dia pipe	each	165.00	37.00	6105
		17.34.2	100 mm dia	For 100 mm dia pipe	each	110.00	66.00	7260
109	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				
		17.35.2.2	Spun cast	Spun cast iron as per IS – 3989 minimum wall thickness 4 mm	each	55.00	408.00	22440
		17.35.3	75mm dia	75 mm dia				
		17.35.3.2	Spun cast	Spun cast iron as per IS – 3989 minimum wall thickness 3.5 mm	each	81.00	341.00	27621
110	17.36		C.I. Bend (Plain)	Providing and fixing plain bend of required degree.				
		17.36.2	100 mm dia	100 mm dia				
		17.36.1.2	Spun cast	Spun cast iron as per IS – 3989 minimum wall thickness 5 mm	each	19.00	825.00	15675
		17.36.3	75 mm dia	75 mm dia				
		17.36.3.2	Spun cast	Spun cast iron as per IS – 3989 minimum wall thickness 3.5 mm	each	28.00	259.00	7252
111	17.37		Heel rest sanitary bend of cast iron	Providing and fixing heel rest sanitary bend				
		17.37.1	100 mm dia	100 mm dia				
		17.37.1.2	Spun cast	Spun cast iron as per IS - 3989	each	11.00	387.00	4257
		17.37.2	75 mm dia	75 mm dia				
		17.37.2.2	Spun cast	Spun cast iron as per IS - 3989	each	20.00	329.00	6580
112	17.41		Single equal plain junction	Providing and fixing single equal plain junction of required degree :				
		17.41.2	100mm	100x100x100 mm				
		17.41.2.2	Spun cast	Spun cast iron as per IS – 3989	each	11.00	607.00	6677
113	17.52		Fixing door piece, C.I. pipe fittings	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete :				
		17.52.1	100mm dia	100 mm				0
		17.52.1.2	Spun cast	Spun cast iron as per IS - 3989	each	9.00	547.00	4923
114	17.53		Terminal guard	Providing and fixing terminal guard:				
		17.53.2	100 mm	100 mm				
		17.53.2.2	Spun cast	Spun cast iron as per IS - 3989	each	8.00	300.00	2400
		17.53.3	75 mm	75 mm				
		17.53.3.2	Spun cast	Spun cast iron as per IS - 3989	each	8.00	210.00	1680
115	17.54		Collar	Providing and fixing collar:				
		17.54.1	100 mm	100 mm				
		17.54.1.2	Spun cast	Sand cast iron S & S as per IS - 3989	each	11.00	317.00	3487
116	17.39		Double equal plain junction	Providing and fixing double equal plain junction of required degree.				
		17.39.2	100mm dia	100x100x100x100mm				
		17.39.2.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	782.00	7038
		17.39.3	75mm dia	75x75x75x75 mm				
		17.39.3.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	573.00	5157
117	17.41		Single equal plain junction	Providing and fixing single equal plain junction of required degree :				
		17.41.2	100mm	100x100x100 mm				
		17.41.2.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	607.00	5463
		17.41.3	75mm	75x75x75 mm				
		17.41.3.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	428.00	3852
118	17.43		Double unequal plain junction of cast iron	Providing and fixing double unequal plain junction of required degree: 100x100x75x75 mm				
		17.43.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	1014.00	9126

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
119	17.45		Single unequal plain junction	Providing and fixing single unequal plain junction of required degree : 100x100x75 mm				
		17.45.2	Spun cast	Spun cast iron as per IS – 3989	each	9.00	724.00	6516
120	17.49		Unequal plain invert branch	Providing and fixing single unequal plain invert branch of required degree : 100x100x75 mm				
		17.49.2	Spun cast	Spun cast iron as per IS - 3989	each	9.00	695.00	6255
121	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				
		17.57.1	100X100mm	100 mm inlet and 100 mm outlet				
		17.57.1.2	Sand cast	Sand Cast iron S & S as per IS: 1729.	each	19.00	610.00	11590
		17.57.2	100X75mm	100 mm inlet and 75 mm outlet				
		17.57.2.2	Spun cast	Spun Cast iron S & S as per IS- 1729.	each	28.00	540.00	15120
122	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	12.00	87.00	1044
122	17.65		Sand cast Iron grating for gully trap.	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	9.00	43.00	387
124	17.66		Mosquito proof coupling	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	each	9.00	44.00	396
125	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	each	11.00	642.00	7062
126	25.58		Glass Self 600mm	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Glass Self-size 600mm with toughened glass	each	5.00	1934.00	9670
127	25.57		Toilet Roll Holder	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Toilet Roll Holder. (Premium Range)	each	3.00	1354.00	4062
128	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.	each	3.00	472.00	1416
129	17.7		Toilet paper holder	Providing and fixing toilet paper holder:				
		17.70.1	C.P. brass	C.P. brass	each	2.00	340.00	680
130	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	15.00	348.00	5220
131	17.72		Bottle trap CP brass	Providing and fixing CP brass bottle trap of approved quality and make for sink and wash basin.	each	4.00	853.00	3412
132	17.73		Towel rail CP brass	Providing and fixing CP brass towel rail of approved quality and make				
		17.73.2	450mm	450x20mm	each	3.00	836.00	2508
133	25.50		Towel rail 600 mm	Providing and fixing in position best Indian Stainless steel made (0.3 micron Chrome and 10 micron Nickel plated) Single Towel Rail 600 mm long.	each	4.00	2631.00	10524
134	25.53		Soap dish holder	Providing and fixing in position best Indian C. P.Brass made (0.3 micron Chrome and 10 micron Nickel plated) Soap Dish Holder.	each	4.00	1911.00	7644
135	17.75		Soap dish CP brass	Providing and fixing CP brass soap dish of approved quality and make	each	3.00	422.00	1266
136	17.76		Urinal spreader CP brass	Providing and fixing CP brass Urinal spreader of approved quality and make	each	6.00	304.00	1824
137	25.54		Soap dispenser	Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Soap Dispenser with Metallic Bottle.	each	4.00	3653.00	14612

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
138	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	3.00	1175.00	3525
139	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	27.00	74.00	1998
140	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	11.00	217.00	2387
141	25.50		Towel rail 600 mm	Providing and fixing in position best Indian Stainless steel made (0.3 micron Chrome and 10 micron Nickel plated) Single Towel Rail 600 mm long.	each	6.00	6231.00	37386
142	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	5.00	412.00	2060
143	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	11.00	511.00	5621
144	17.91		Painting C.I. waste vent pipes and fittings with synthetic enamel paint	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :				
		17.91.1	75 mm dia	75 mm diameter pipe	meter	330.00	22.00	7260
		17.91.2	100 mm dia	100 mm diameter pipe	meter	220.00	29.00	6380
		17.91.3	150mm dia	150 mm diameter pipe	meter	40.00	36.00	1440
145	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.				
		18.6.2	Concealed	Concealed work including cutting chases and making good the walls etc.				
		18.6.2.1	15 mm	15 mm nominal outer dia .Pipes.	metre	90.50	207.00	18734
		18.6.2.2	20 mm	20 mm nominal outer dia .Pipes.	metre	271.50	234.00	63531
		18.6.2.3	25 mm	25 mm nominal outer dia .Pipes.	metre	148.00	288.00	42624
146	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	160.00	122.00	19520
		18.7.4	32 mm	32 mm nominal outer dia .Pipes.	metre	110.00	141.00	15510
		18.7.5	40 mm	40 mm nominal outer dia .Pipes.	metre	70.00	185.00	12950
		18.7.6	50 mm	50 mm nominal outer dia .Pipes.	metre	70.00	238.00	16660
		18.7.7	62.50 mm	62.50 mm nominal inner dia Pipes.	metre	30.00	324.00	9720
		18.7.8	75 mm	75 mm nominal inner dia .Pipes.	metre	30.00	498.00	14940
147	18.12		Gun metal gate valve	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
		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	6.00	341.00	2046
		18.12.2.2	32 mm dia	32 mm nominal bore.	each	6.00	419.00	2514
		18.12.2.3	40 mm dia	40 mm nominal bore	each	6.00	491.00	2946
		18.12.2.4	50 mm dia	50 mm nominal bore	each	6.00	639.00	3834

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
148	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	6.00	316.00	1896
		18.14.2	20 mm dia	20 mm nominal bore	each	6.00	431.00	2586
		18.14.3	25 mm dia	25 mm nominal bore	each	6.00	499.00	2994
149	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	4.00	462.00	1848
		18.15.1.2	Vertical	Vertical	each	4.00	474.00	1896
		18.15.2	32 mmdia	32 mm nominal bore				
		18.15.2.1	Horizontal	Horizontal	each	4.00	587.00	2348
		18.15.2.2	Vertical	Vertical	each	4.00	715.00	2860
		18.15.3	40 mmdia	40 mm nominal bore				
		18.15.3.1	Horizontal	Horizontal	each	4.00	746.00	2984
		18.15.3.2	Vertical	Vertical	each	4.00	990.00	3960
		18.15.4	50 mmdia	50 mm nominal bore				
		18.15.4.1	Horizontal	Horizontal	each	2.00	1138.00	2276
		18.15.4.2	Vertical	Vertical	each	2.00	1353.00	2706
150	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	4.00	285.00	1140
151	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	22.00	149.00	3278
152	18.28		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	11000.00	7.00	77000
153	25.19		Bib cock	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter tum)Bib cock.	each	9.00	2071.00	18639
154	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	19.00	458.00	8702
155	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	21.00	526.00	11046
156	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	19.00	544.00	10336
157	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	18.00	775.00	13950
158	25.20		Angular stop cock	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating. 10 micron and chrome plating 0.3 micron, quarter turn) Angular stop cock.	each	16.00	1573.00	25168
159	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	26.00	516.00	13416
160	25.18		Pillar cock	Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) Pillar cock.	each	6.00	2336.00	14016
161	25.33		Shower rose 150mm	Providing and fixing in position best Indian shower rose 150mm dia, body and face chrome plated, brass made body, Silicon based Rubbit cleaning nozzles.	each	3.00	3825.00	11475
162	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	3.00	829.00	2487
163	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	2.00	155.00	310

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
164	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	168.00	154.00	25872
165	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	36.00	129.00	4644
166	18.61		CP jet assembly	Providing and fixing CP jet assembly to including connection etc complete.	each	18.00	375.00	6750
167	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	8.00	1668.00	13344
		19.7.2	150 x 100 mm	150 x 100 mm size P type.				
		19.7.2.2	Sewer bricks	With sewer bricks conforming to IS : 4885	each	8.00	1707.00	13656
168	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	2.00	7747.00	15494
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	3.00	3951.00	11853
170	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	5.00	7413.00	37065
171	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	5.00	9504.00	47520

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
172	25.1		Orrisa Pan	Providing and fixing white vitreous china Anti germ Fluoro-Polymer Coated Water closet squatting pan with 100 mm sand cast Iron P and S- trap, and 7.2 liter Low level, dual flush, PP (Poly Propylene) made open slim wall hung cistern capacity 3 liter/6 liter flushing, with all fittings and fixtures complete including cutting and making good the wall and floors wherever required.				
		25.1.1	Size 440X575X250mm	White Vitreous china Anti germ Fluoro-Polymer coated Orrisa Pattern W. C. Pan of Size 440X575X250mm With integral foot rests.	each	6.00	4726.00	28,356.00
172	25.3		Wall Hung WC	Providing and fixing white vitreous china European Wall hung Anti germ Fluoro-Polymer Coated water closet of approved shape with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) 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.				
		25.3.4	Size 360 x 500 x 330mm	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet size 360 x 500 x 330mm or greater size with solid poly propylene made, soft closing seat cover .	each	12.00	18838.00	2,26,056.00
173	25.8		Counter Top Basin	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin with 15 mm C. P. wall mounted pressmatic Pillar cock auto closing system with square wall flange and spout complete (decol technology), 32 mm C.P. brass waste coupling length 130mm and 32 mm C.P. brass bottle trap size 200x300mm i/c cutting and making good the wall and floors wherever required all fittings and fixtures etc. complete.				
		25.8.1	Size 570X420X195 mm	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin Size 570x415x200mm with 15 mm C. P. wall mounted pressmatic Pillar cock auto closing system with square wall flange & spout complete	each	10.00	14543.00	1,45,430.00
174	17.29		Wash basin white vitreous china excluding the cost of fittings	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
		17.29.1	630x450mm. Flat back	Flat back wash basin of size 630x450mm.	each	12.00	1379.00	16548
175	17.32		C.I. 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	90.60	970.00	87882
176	17.34		M.S. holder	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of Cement Concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :				
		17.34.2	100 mm dia	For 100 mm dia pipe	Each	25.00	66.00	1650
177	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	22.00	400.00	8800
178	17.36		C.I. bend (Plain)	Providing and fixing plain bend of required degree.				
		17.36.2	100 mm dia	100 mm dia				
		17.36.2.1	Sand cast	Sand cast iron as per IS – 1729 minimum wall thickness 6.5mm	Each	12.00	381.00	4572

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
179	17.37		Heel rest sanitary bend of cast iron	Providing and fixing heel rest sanitary bend				
		17.37.1	100 mm dia	100 mm dia				
		17.37.1.1	Sand cast	Sand cast iron as per IS - 1729	Each	12.00	329.00	3948
180	17.38		C.I. double equal junction with access door	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :				
		17.38.2	100mm dia	100x100x100x100mm				
		17.38.2.1	Sand cast	Sand cast iron as per IS - 1729	Each	12.00	744.00	8928
181	17.39		CI double equal plain junction	Providing and fixing double equal plain junction of required degree.				
		17.39.2	100mm dia	100x100x100x100mm				
		17.39.2.1	Sand cast	Sand cast iron as per IS - 1729	Each	13.00	666.00	8658
182	17.4		C.I. Single equal junction with access door	Providing and fixing single equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
		17.41.2	100mm	100x100x100 mm				
		17.41.2.1	Sand cast	Sand cast iron as per IS - 1729	Each	18.00	504.00	9072
183	17.52		Fixing door piece, C.I. pipe fittings	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete :				
		17.52.1	100mm dia	100 mm				
		17.52.1.1	Sand cast	Sand cast iron as per IS - 1729	Each	18.00	541.00	9738
184	17.53		C.I.terminal guard	Providing and fixing terminal guard:				
		17.53.2	100 mm	100 mm				
		17.53.2.1	Sand cast	Sand cast iron as per IS - 1729	Each	16.00	259.00	4144
185	17.57		C.I. 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				
		17.57.1.2	Sand cast	Sand Cast iron S & S as per IS: 1729.	Each	16.00	610.00	9760
186	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	12.00	87.00	1044
		17.64.2.2	40 mm	40 mm dia	Each	8.00	98.00	784
187	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	Each	12.00	642.00	7704
188	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.	Each	12.00	474.00	5688
189	17.7		Toilet paper holder	Providing and fixing toilet paper holder:				
		17.70.1	C.P. brass	C.P. brass	Each	4.00	340.00	1360
190	17.71		Waste coupling CP brass	Providing and fixing CP brass waste coupling of approved quality and make for sink and wash basin.				
		17.71.1	31mm dia	Waste coupling 31mm of 79mm length and 62mm breadth	Each	12.00	330.00	3960
		17.71.2	38mm dia	Waste coupling 38mm of 83mm length and 77mm breadth	Each	8.00	348.00	2784
191	17.72		Bottle trap CP brass	Providing and fixing CP brass bottle trap of approved quality and make for sink and wash basin.	Each	20.00	853.00	17060
192	17.73		Towel rail CP brass	Providing and fixing CP brass towel rail of approved quality and make				
		17.73.1	600mm	600x20mm	Each	16.00	952.00	15232
193	17.74		Towel ring CP brass	Providing and fixing CP brass towel ring of approved quality and make 200mm dia ring	Each	16.00	679.00	10864
194	17.75		Soap dish CP brass	Providing and fixing CP brass soap dish of approved quality and make	Each	16.00	422.00	6752

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
195	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	16.00	1175.00	18800
196	17.78		Grating C.P. brass	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification.	Each			
		17.78.1	100 mm dia	100 mm dia.	Each	28.00	74.00	2072
197	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.				
		18.6.2	Concealed	Concealed work including cutting chases and making good the walls etc.				
		18.6.2.1	15 mm	15 mm nominal outer dia .Pipes.	Metre	98.00	207.00	20286
		18.6.2.2	20 mm	20 mm nominal outer dia .Pipes.	Metre	147.00	234.00	34398
		18.6.2.3	25 mm	25 mm nominal outer dia .Pipes.	Metre	74.00	288.00	21312
		18.6.2.4	32 mm	32 mm nominal outer dia .Pipes.	Metre	60.00	360.00	21600
198	18.7		CPVC pipes foreexternal 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.				
		18.7.6	50 mm	50 mm nominal outer dia .Pipes.	METER	150.00	498.00	74700
199	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	150.00	492.00	73800
		18.8.3.7	65 mm	65 mm dia. nominal bore	Metre	150.00	533.00	79950
200	12.16		Precoated G.S. sheet ro	Providing and fixing precoated galvanised steel s				
		12.16.1	Ridge	Ridges plain (500 - 600mm).	meter	3.50	320.00	1120
		12.16.2	Flashing	Flashings/ Aprons.(Upto 600 mm)	meter	42.40	284.00	12042
		12.16.3	North light	North light curves.	meter	8.05	341.00	2745
		12.16.4	Barge board	Barge board (Upto 300 mm)	meter	48.76	274.00	13360
		12.16.5	Crimp curve	Crimp curve	sqm	2.01	315.00	633
		12.16.6	Gutter	Gutter. (600 mm over all girth)	meter	7.00	781.00	5467
201	10.15		M.S.structural steel	Design, supply, fabrication, taransportation 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	3420.00	132.00	4,51,440.00
202	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)				
		18.12.1.4	50 mm dia	50 mm nominal bore	Each	9.00	976.00	8784
		18.12.1.5	65 mm dia	65 mm nominal bore	Each	9.00	1339.00	12051
203	18.13		CPVC gate valve	Providing and fixing CPVC gate valve with knob of approved quality.				
		18.13.1	25 mm dia	25 mm nominal bore	EACH	12.00	428.00	5136
		18.13.2	32 mm dia	32 mm nominal bore.	EACH	6.00	500.00	3000

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
		18.13.3	40 mm dia	40 mm nominal bore	EACH	10.00	584.00	5840
		18.13.4	50 mm dia	50 mm nominal bore	EACH	15.00	749.00	11235
204	18.22		Painting G.I. pipes and fittings	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :				
		18.22.6	50 mm dia	50 mm diameter pipe.	Metre	100.00	19.00	1900
205	18.25		Filling sand all-round G.I. pipes	Providing and filling sand all-round the G.I. pipes in external work.				
		18.25.6	50 mm dia	50 mm diameter pipe	Metre	150.00	120.00	18000
		18.25.7	65 mmdia	65 mm diameter pipe	Metre	150.00	189.00	28350
206	18.29		Brass bib cock	Providing and fixing brass bib cock of approved quality	EACH	44.00	306.00	13464
207	18.30.1			Providing and fixing brass stop cock of approved quality :	EACH	12.00	318.00	3816
208	18.43		C.P. brass shower rose	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
		18.43.1	100 mm dia	100 mm diameter	Each	4.00	806.00	3224
		18.43.2	150 mmdia	150 mm diameter	Each	8.00	922.00	7376
			FIRE					
209	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	5.00	11351.00	56755
210	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	5.00	5493.00	27465
211	12.58		False ceiling with boards (G.I. grid suspension)	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre shall be fixed in a direction				
		12.58.3	8 mm thick calcium silicate board	8 mm thick Calcium Silicate Board made with Calcareous and Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	sqm	90.00	1150.00	103500

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
212	12.81		GRG (glass fibre reinforced) gypsum false ceiling	Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC0.50 to 0.75 as per IS 8225:1987, Noncombustible as per BS 476 (part 4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross- T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M.6 dash fasteners 6 mm dia fully				
		12.81.1	12mm thick	With semi perforated 12mm thick micro tegular edged GRG false ceiling tiles.	sqm	125.82	1210.00	152242
213	27.4		Name plate letter embossing on S.S. plate	Providing and fixing Stainless steel plate 304 grade of 1.50mm thick, including writing with Embossing of 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	3.20	13652.00	43686
214	27.5		Name plate computerize d writing on S.S. plate	Providing and fixing of name plate for offices name of Stainless steel plate 304 grade of 1.50mm thick, 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	4.35	11926.00	51878
215	27.6		Name plate computerize d writing on ACP fixing on pipe	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 1.25m Chromium plated Steel Pipe 15mm dia, compete as per direction of Engineer-in- Charge.	sqm	1.20	7287.00	8744
215	27.7		Name plate computerize d 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	2.00	6180.00	12360
Rain water harvesting								
216	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	70.00	136.00	9520
	12.32.2	12.32.2	110 mm	110 mm diameter (minimum wall thickness 2.2mm)	metre	394.20	238.00	93820
217	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	50.00	67.00	3350
		12.33.1.2	110 mm	110 mm (minimum wall thickness 2.2mm)	each	251.00	102.00	25602
		12.33.3	With door	Single tee with door				
		12.33.3.1	75 mm	75x75x75 mm (minimum wall thickness 1.8mm)	each	2.00	106.00	212
		12.33.3.2	110 mm	110x110x110 mm (minimum wall thickness 2.2mm)	each	36.00	176.00	6336
		12.33.5	Bend	Bend 87.5°				
		12.33.5.1	75 mm	75 mm bend (minimum wall thickness 1.8mm)	each	2.00	78.00	156
		12.33.5.2	110 mm	110 mm bend (minimum wall thickness 2.2mm)	each	36.00	112.00	4032

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
218	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		97.00	0
		12.34.2	110 mm	110 mm (minimum wall thickness 2.2mm)	each		114.00	0
219	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	19.00	95.00	1805
220	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	300.00	238.00	71400
221	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	10.00	6,485.00	64850
222	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	9.67	147.00	1421
223	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	2.26	4,936.00	11155
224	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
225	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	6.00	236.00	1416
		16.11.2	>6 m and upto 12 m	Beyond 6 m and upto 12 m depth.	meter	4.00	280.00	1120
226	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	1.00	545.00	545
227	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	10.00	386.00	3860
228	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	1.00	841.00	841
229	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	0.50	760.00	380
230	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	0.40	877.00	351

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
231	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	0.30	819.00	246
232	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				
233	16.21.2		110 mm dia for 200 square meter area	System size 110mm diameter (filter, rain, tee, door bend, and valve 110mm) For the catchment up to 200 square meter.	each	2.00	7,750.00	15500
234	16.22		Borewell adaptor	Borewell adaptor for connecting Rain Water Harvesting pipe line to borewell.				
		16.22.2	110 mm dia	Borewell adaptor 110mm	each	1.00	300.00	300
235	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	100.00	451.00	45100
		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	80.00	690.00	55200
236	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	120.00	878.00	105360
237	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	180.00	551.00	99180
238	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	180.00	1191.00	214380

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
239	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	2.00	366.00	732
240	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	4.00	1129.00	4516
241	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	2.00	242.00	484
242	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	2.00	877.00	1754
243	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	2.00	819.00	1638
244	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	200	402.00	80400
		18.8.3.6	50 mm	50 mm dia. nominal bore	metre	150	492.00	73800
		18.8.3.7	65 mm	65 mm dia. nominal bore	metre	130	533.00	69290
245	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)				
		18.12.1.3	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
246	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	300.00	195.00	58500
		19.1.2	150 mm dia	150 mm diameter	metre	200.00	260.00	52000
247	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 :				
		19.3.1	100 mm dia	100 mm diameter S.W. pipe	metre	300.00	226.00	67800
		19.3.2	150 mm dia	150 mm diameter S.W. pipe	metre	200.00	366.00	73200
248	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	2.00	1,668.00	3336
		19.7.2	150 x 100 mm	150 x 100 mm size P type.				
		19.7.2.2	Sewer bricks	With sewer bricks conforming to IS : 4885	each	2.00	1,707.00	3414
249	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	50.00	243.00	12150

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
250	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	4.00	7,747.00	30988
		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	4.00	21,228.00	84912
251	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	0.50	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	0.50	6,512.00	3256
252	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	8.00	187.00	1496
253	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	4.00	1,126.00	4504
		19.26.2	Rectangular 120x90 cm Medium duty	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	4.00	1,758.00	7032
254	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 strength	each	4.00	4,900.00	19600
256	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	4.00	6,983.00	27932
257	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	2.00	3,172.00	6344

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
258	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 $\pm$ 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	4.00	10,130.00	40520
259	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 $\pm$ 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	4.00	3,951.00	15804
260	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	100.00	96.00	9600
		2.9.2	>80mm dia/ <300mm dia	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	400.00	156.00	62400
261	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	430.50	350.00	150675
262	3.3		Soil Excavation	Excavation in Soil using Hydraulic Excavator and Tipplers with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tipplers, 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	1350.00	55	74250
263	3.10		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	1350.00	155.00	209250
264	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	524.00	934.00	489416
265	6.1		Cement concrete Sub- base	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per 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 paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-600				

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
266	6.2		0	Deduct from Item No.6.1 above if paver with electronic sensor, vibratory roller are 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.) . Note:- This item is to be executed with prior written permission from the C.E.	Cum	158.00	2617.00	413486
267	6.4		Cement Concrete Pavement	Cement Concrete Pavement Construction of un-reinforced, dowel jointed, plain cement concrete pavement 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 a fixed form or 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 per relevant clauses of section 602 of specifications complete but excluding cost of steel in dowel bar and tie rods etc.				
268	6.5			Deduct from Item No.6.3 & 6.4 above if 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.)	Cum	375.00	5335.00	2000625
269	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.				
	B			Hard Shoulders (CBR value >12)	Cum	432.00	181.00	78192
270	6.12		Dowel Bar	Add extra in Item No.6.3 & 6.7 above for the cost of steel in dowel bar and tie rod etc. required as per design.	MT	0.50	63587.00	31794
					TOTAL CIVIL (A)			70049223
			INTERNAL ELECTRIFICATION					
1	4.1.1.1			Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- Light point/fan points.Primary short point	each	132.00	451.00	59532
2	4.1.1.2			Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- Light point/fan points. Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- Light point/fan points. Primary medium point	each	238.00	830.00	197540
3	4.1.1.3			Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :- Light point/fan points. Primary long point	each	474.00	1300.00	616200
4	4.1.2.1			(Light point/fan points) looping point Secondary short point	each	7.00	226.00	1582
5	4.1.2.2			(Light point/fan points) looping point Secondary medium point	each	9.00	415.00	3735
6	4.1.3.2			3 Pin 6 Amp socket outlet on separate board Medium point	each	74.00	990.00	73260
7	4.1.3.3			3 Pin 6 Amp socket outlet on separate board Long point	each	96.00	1515.00	145440
8	4.1.4.3			Call bell/buzzer points Long point	each	14.00	1183.00	16562
9	4.1.5.3			Twin control light points Long point	each	16.00	1453.00	23248

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
10	4.2			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 FRLS 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	174.00	265.00	46110
11	4.3.1			Wiring for circuit wiring with PVC insulated cable FRLS 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 2x2.5 Sq.mm.	metre	800.00	139.00	111200
12	4.3.2			Wiring for circuit wiring with PVC insulated cable FRLS 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 4x2.5 Sq.mm.	metre	600.00	224.00	134400
13	4.3.3			Wiring for circuit wiring with PVC insulated cable FRLS 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 6x2.5 Sq.mm.	metre	400.00	288.00	115200
14	4.3.4			Wiring for circuit wiring with PVC insulated cable FRLS 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 8x2.5 Sq.mm.	metre	200.00	353.00	70600
15	9.1.1.1			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Short point	each	12.00	985.00	11820
16	9.1.1.2			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Medium point	each	14.00	1749.00	24486
17	9.1.1.3			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Long point	each	68.00	2612.00	177616
18	9.1.1.4			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Extra long-I	each	9.00	3648.00	32832
19	9.1.1.5			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Extra long-II	each	6.00	4771.00	28626

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
20	9.1.1.6			Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS 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 FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :- Extra long-III	each	4.00	5986.00	23944
21	9.2			Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	each	194.00	437.00	84778
22	16.1.2			Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required PVC. conduit 25 mm (HMS)	metre	400.00	74.00	29600
23	18.2.1			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:- 1Or 2 Module metal box	each	38.00	182.00	6916
24	18.2.2			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:- 3 Module metal box	each	58.00	216.00	12528
25	18.2.3			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:- 4 Module metal box	each	12.00	244.00	2928
26	18.2.4			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:- 6 Module metal box	each	134.00	309.00	41406
27	18.2.5			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:- 8/9 Module metal box	each	18.00	373.00	6714
28	18.2.6			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:- 12 Module metal box	each	154.00	502.00	77308
29	18.2.8			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 Module metal box	each	24.00	642.00	15408
30	19.1.1.1			Supplying & drawing PVC insulated copper FRLS with copper multi strand conductor ISI marked in existing conduit along with other wires as per specification 19.1.1.1 1x1.5	metre	1800.00	19.00	34200
31	19.1.1.3			Supplying & drawing PVC insulated copper FRLS with copper multi strand conductor ISI marked in existing conduit along with other wires as per specification 19.1.1.3 3x1.5	metre	316.00	56.00	17696
32	19.1.2.1			19.1.2 2.5 sq mm wire 19.1.2.1 1x2.5	metre	2000.00	30.00	60000
33	23.1.2.3			Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS 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 Point No.10) 3 Wire sub main 6.0 sq. mm. cable	metre	90.00	321.00	28890
34	23.1.4.3			4 Wire sub main 6.0 sq. mm. cable	metre	600.00	398.00	238800
35	23.1.4.4			4 Wire sub main 10.0 sq. mm. cable	metre	300.00	601.00	180300
36	25.16.6			Supply & fixing of I.S.I.marked Porcelain Rewireable fuse unit of approved make or confirming to I.S.S. 2086-1982 200 Amps /415 Volts	each	6.00	983.00	5898
37	27.2.1			Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal - magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2 MCCB 25kA current rating - 63 to100Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	each	6.00	7538.00	45228

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
38	27.2.2			Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase, 3 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal - magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2 MCCB 25kA current rating - 125Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	each	1.00	10160.00	10160
39	27.3.3			Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase & N, 4 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal-magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2 MCCB 25kA current rating - 160Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 4 Pole	each	1.00	15835.00	15835
40	27.3.4			Supplying of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase & N, 4 pole, 50 Hz, 415 Volts, (Ics=100%Icu) AC supply with thermal-magnetic release having respective breaking capacity (KA) at 415 Volts cited against their range standard conforming to IS/IEC 60947-2 MCCB 25kA current rating - 200 Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 4 Pole	each	1.00	19695.00	19695
41	27.8.1.2			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 :- MCB SP 6Amp to 32Amp 10kA rating	each	264.00	263.00	69432
42	27.8.2.2			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 :- MCB SP 6Amp to 32Amp 10kA rating Double pole MCB DP 6Amp to 32Amp 10kA rating	each	24.00	887.00	21288
43	27.8.3.2			For Triple pole MCB TP 6Amp to 32Amp 10kA rating	each	16.00	1411.00	22576
44	27.8.3.4			For Triple pole MCB TP 50Amp to 63Amp 10kA rating	each	18.00	2157.00	38826
45	27.8.4.3			Four pole MCB FP 40Amp 10kA rating	each	18.00	2714.00	48852
46	27.11.4			Supply of approved make powder coated sheet steel enclosure 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)- 6 Way Double Door IP 43 Protection	each	4.00	1846.00	7384
47	27.11.5			Supply of approved make powder coated sheet steel enclosure 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)- 8 Way Double Door IP 43 Protection	each	2.00	2127.00	4254
48	27.12.2			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): 4 Way (8+12)	each	16.00	4444.00	71104
49	27.12.3			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): 6 Way (8+18)	each	4.00	5526.00	22104
50	27.14.1			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 4 Way without MCCB	each	4.00	13822.00	55288
51	27.18.2			Supplying & fixing of approved make Industrial type metal plug & socket DBs (without MCB) SPN sheet enclosure (dust protected) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required. 20 Amp	each	18.00	1095.00	19710
52	27.19.1			Supplying & fixing of ISI marked Industrial type metal plug socket D.B.s (without MCBs) for TPN enclosure three pole and earth metal plug and socket including space to incorporate TP MCB complete as per specification as required. 20 Amp	each	16.00	2249.00	35984
53	27.19.2			Supplying & fixing of ISI marked Industrial type metal plug socket D.B.s (without MCBs) for TPN enclosure three pole and earth metal plug and socket including space to incorporate TP MCB complete as per specification as required. 30/32 Amp	each	12.00	2543.00	30516

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
54	27.21.2.6			Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard conforming to IEC:61009-1 & IS:12640-2, 240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification. 4 pole 25-32Amp, 100/300mA sensitivity	each	1.00	6476.00	6476
55	27.21.2.8			Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard conforming to IEC:61009-1 & IS:12640-2, 240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification. 4 pole 63Amp, 100/300mA sensitivity	each	1.00	7926.00	7926
56	28.4.1			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) MCB/Isolator SP/DP	each	288.00	22.00	6336
57	28.4.2			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) MCB/MCCB Isolator TP/TPN/FP	each	52.00	28.00	1456
58	28.5.2			Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamp duly embedded in wall, cable connection etc. complete. For item no :- 27.11.5 & 27.12.1 to 27.12.2	each	24.00	545.00	13080
59	28.5.3			Labour charges for fixing sheet steel enclosure, MCB DB surface mounting type, as per accepted practice on 25x5mm flat iron clamp duly embedded in wall, cable connection etc. complete. For item no :- 27.12.3 to 27.12.4 & 27.13.1	each	6.00	572.00	3432
60	29.3.2			Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete. Buzzer	each	14.00	82.00	1148
61	29.7.4			Supply and fixing in position LED lamp of approved make 7 Watt250Volt	each	54.00	108.00	5832
62	29.7.6			Supply and fixing in position LED lamp of approved make 12 Watt250Volt	each	146.00	191.00	27886
63	29.15.1			Supply and fixing as per specification caution/danger board of approved make with necessary material complete. Small size 200 X 150 mm for MV/LT	each	12.00	97.00	1164
64	29.25.2			Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board 100 Watt(2 module)	each	164.00	484.00	79376
65	29.27			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, outgoings, 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	200.00	397.00	79400
66	29.28.1			Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification. Digital Ampere Metre with CTs with selector switch	P.SET	2.00	2125.00	4250
67	29.28.2			Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification. Digital Volt Metre with selector switch & HRC fuse	P.SET	2.00	2398.00	4796
68	29.28.6			Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification. Aluminium bus bar strips with PVC sleeves	Kg	46.00	284.00	13064
69	29.28.7			Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification. LED lamp indicator	each	6.00	255.00	1530
70	30.1.2			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. Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m³/min and service value ≥ 4.00 as per BEE..	each	164.00	2292.00	375888
71	30.5.4			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 300mm RPM1300/1400	each	16.00	2004.00	32064

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
72	30.6.1			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.300mm sweep RPM 900 / 1400	each	12.00	2571.00	30852
73	30.13			Supply and fixing M.S. down rod 14 SWG (2mm) thick for ceiling fan including threading, painting, making holes etc. as required complete. Note: For new works difference of installed & standard down rod length shall be paid.	metre	82.00	114.00	9348
74	31.3.4			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.Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	each	438.00	782.00	342516
75	31.13.2			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.60Watt, color temp 3000-6500k as required.	each	30.00	9791.00	293730
76	32.3			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 mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	each	164.00	90.00	14760
77	31.17.1			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. Sanitary Napkin Incinerator(Capacity 30 per Day)	each	4.00	30874.00	123496
78	37.3			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	6.00	7487.00	44922
79	37.9			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	72.00	130.00	9360
80	37.21.1			18mm dia 500mm long bright nickel plated copper tube Providing and fixing of lightning conductor finial made of 18mm dia 500mm long bright nickel plated copper tube tapered having single prong at top with bright nickel plated brass base M10 for connection and intersection of flat or round conductor including holes, clamp complete as required.	each	2.00	3947.00	7894
81	37.23			Fixing of lightning conductor, 25 mm dia 300 mm long cu./G.I. tube Fixing of lightning conductor finial made of 25mm dia 300mm long copper tube/G.I. tube having single prong at top with base plate etc. complete as required.	each	2.00	535.00	1070
82	37.24			Riveting/sweating and soldering Riveting/sweating and soldering of copper/G.I. Tape (with another copper/G.I. Tape, base of finial or any other metallic object) as required	each	2.00	107.00	214
83	37.25			Cu. tape 20x3 mm (for horizontal runs) Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for horizontal runs)	metre	12.00	567.00	6804
84	37.26			Cu. tape 20x3 mm (for vertical runs) Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for vertical runs)	metre	24.00	591.00	14184
85	37.39.2			Supply and drawing PVC insulated copper cable (earth continuity conductor) of green colour FRLS with copper multi strand conductor ISI mark in existing conduit along with other wires as required as per specification : 6 sq. mm.	metre	600.00	71.00	42600

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
86	37.39.3			Supply and drawing PVC insulated copper cable (earth continuity conductor) of green colour FRLS with copper multi strand conductor ISI mark in existing conduit along with other wires as required as per specification :10 sq. mm.	metre	300.00	102.00	30600
87	38.9.1			Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module) RJ - 45 computer socket cat 6 with shutter modular (1Module)	each	38.00	288.00	10944
88	38.1			Supplying and drawing co-axial T.V. cable RG- 6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tined copper braid and protected with PVC sheathed in existing surface/concealed, steel/PVC conduit as required.	metre	178.00	30.00	5340
89	38.8			Supply, fixing and testing of T.V. outlet modular (1Module)	each	3.00	175.00	525
90	38.11			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	2000.00	56.00	112000
91	38.13.1			Supply, installation testing and commissioning of patch cord as mentioned below :- CAT 6 RJ45 patch cord UTP 1 metre	each	7.00	436.00	3052
92	38.15			Supply, installation testing and commissioning of 19" modular patch - 1 U patch panel 24, RJ 45 cat-6 connector	each	2.00	11792.00	23584
93	38.17.1			Supply, installation testing and commissioning of wall mounting rack, for computer switches/Patch Panel etc complete as mentioned below :- 6U cabinet with min. Dimensions 366X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement	each	2.00	9753.00	19506
94	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	2.00	23024.00	46048
95	39.1.11			Supplying & installation of required capacity of single phase, 50 Hz, 220V, deep well submersible pump stainless steel body, as per IS of approved make, suitable for 4"/6 " tube well with control panel starter suitable for submersible pump with dry run protection, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe, SS/Nylon wire rope and connection cable.2 HP with 7-8 stages, head metre 56-16, discharge LPM 65-205	each	2.00	31199.00	62398
96	39.1.12			Supplying & installation of required capacity of single phase, 50 Hz, 220V, deep well submersible pump stainless steel body, as per IS of approved make, suitable for 4"/6 " tube well with control panel starter suitable for submersible pump with dry run protection, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe, SS/Nylon wire rope and connection cable. 2 HP with 20-22 stages, head metre 147-42, discharge LPM 15-55	each	1.00	35906.00	35906
97	39.3.2			Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make. 4.0 sq.mm multi strand	metre	400.00	205.00	82000
98	39.4.2			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) 32 mm Outer Dia.	metre	375.00	120.00	45000
99	39.5			Supplying and laying of approved make nylon rope 12 mm thick complete with binding for support of pump and motor.	metre	375.00	76.00	28500
100	39.8.2			Supplying & installation of approved make required capacity single phase, 50 Hz, 220V,centrifugal monoblock pump stainless steel body, as per IS of approved make, suitable for 4"/6 " tube well with control panel starter suitable for submersible pump with dry run protection, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe, SS/Nylon wire rope and connection cable.2 HP, head metre 12-20, discharge LPM 540-180	each	1.00	27997.00	27997
101	41.1.8.3			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 3½ core armoured 50 sq. mm	metre	74.00	373.00	27602
102	41.1.8.7			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 3½ core armoured 150 sq. mm.	metre	90.00	904.00	81360

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
103	41.1.10.2			4 core armoured 10 sq. mm.	metre	276.00	181.00	49956
104	41.1.8.2			3½ core armoured 35 sq. mm	metre	80.00	280.00	22400
105	41.1.8.5			3½ core armoured 95 sq. mm.	metre	120.00	625.00	75000
106	41.5.1.1			Brass compression glandSupplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete. Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	each	4.00	79.00	316
107	41.5.1.2			Brass compression glandSupplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete. Gland size 22mm suitable for cable 2/3, 3½, 2/4 x 10 sq. mm or 2x 16 sq. mm	each	2.00	97.00	194
108	41.5.1.5			Gland size 38 mm 3½ x 70 sq. mm, 3x95 sq. mm	each	4.00	219.00	876
109	41.5.1.4			Gland size 32 mm for 2/3, 3½, 4 x 25 sq. mm OR 2/3, 3½ x 35 sq. mm or 2/3/3½ x 50 sq. mm.	each	8.00	158.00	1264
110	41.5.1.6			Gland size 45 mm 3/3½ x 120 sq. mm, 3½ x 95 sq. mm, 3 x 150 sq. mm.	each	4.00	260.00	1040
111	41.5.1.7			Gland size 50 mm ,3½ x 150 sq. mm,3 x 185 sq. mm	each	4.00	290.00	1160
112	41.6.1			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 2.5 to 6.00 sq. mm	each	9.00	3.00	27
113	41.6.2			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 10.00 sq. mm	each	7.00	4.00	28
114	41.6.5			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 35.00 sq. mm	each	16.00	7.00	112
115	41.6.6			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 50.00 sq. mm	each	12.00	11.00	132
116	41.6.10			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 150.00 sq. mm	each	9.00	25.00	225
117	41.6.9			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 120.00 sq. mm	each	14.00	18.00	252
118	41.7.1			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. For conductor size- 6mm to 16 sq. mm	each	16.00	8.00	128
119	41.7.4			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. For conductor size- 50 sq. mm	each	34.00	22.00	748
120	41.7.5			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. For conductor size- 70 sq. mm	each	12.00	35.00	420
121	41.7.7			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. For conductor size- 120 sq. mm.	each	12.00	58.00	696
122	41.7.8			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. For conductor size-150 sq. mm.	each	16.00	66.00	1056
123	41.8.2.1			Supplying & fixing pin terminal lugs as per ISS specification suitable for cable evenly cramped with high pressure tool & connection to switch gear terminal as required complete. Upto 16 sq. mm conductor size	each	178.00	30.00	5340
124	41.14.1			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. 50.00mm outside dia.	metre	274.00	133.00	36442

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
125	41.14.4			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. 110.00mm outside dia.	metre	45.00	252.00	11340
126	41.15.1			Laying of one number armoured / unarmoured cable 1.1.KV grade of size not exceeding 25 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, and sand cushioning protective covering and refilling the pit etc. as required.	metre	274.00	230.00	63020
127	41.15.3			Laying of one number armoured / unarmoured cable 1.1.KV grade of size exceeding 120 sq. mm. but not exceeding 400 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, and sand cushioning protective covering and refilling the pit etc. as required.	metre	78.00	266.00	20748
128	41.18			Laying of one number armoured/unarmoured cable 1.1KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm on wall/truss with approved type of iron clamp etc. as required.	metre	139.83	71.00	9928
129	41.15.7			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	124.00	28.00	3472
130	41.20.1			Laying of underground cable armoured./unarmoured as per specification in air suspended on existing approved type of iron clamp, G.I wire 7/1.6mm & shackle insulator/insulated strip complete. 1/2/3/4 Core cable upto 16 sq. mm	metre	138.00	25.00	3450
131	41.20.2			Laying of underground cable armoured./unarmoured as per specification in air suspended on existing approved type of iron clamp, G.I wire 7/1.6mm & shackle insulator/insulated strip complete. 1/2/3/3½/4 Core cable 25 sq. mm to 120 sq. mm	metre	77.00	40.00	3080
132	29.27			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	140.00	397.00	55580
133	29.28.5			Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification. Aluminium bus bar strips with PVC sleeves	Kg	16.00	788.00	12608
134	29.28.6			LED lamp indicator	each	3.00	255.00	765
135	37.3			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	2.00	7487.00	14974
136	37.4			Earthing with copper earth plate 600mm X 600mm X 3mm 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	2.00	16341.00	32682
137	37.5			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	4.00	1655.00	6620
138	37.9			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	16.00	130.00	2080
139	37.11			Providing and fixing 25mm X 5mm copper strip in 40 mm dia G.I. Pipe from earth electrode as required	metre	16.00	1490.00	23840
140	41.5.1.1			Brass compression gland Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete. Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	each	8.00	79.00	632
141	41.6.1			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete 2.5 to 6.00 sq. mm	each	24.00	3.00	72

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
142	41.7.1			Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./copper solid/stranded conductor evenly crimped with high/pressure tool and connected to switch gear/bus/M.C.C.B./M.C.B. etc. as required complete. 6mm to 16 sq. mm	each	20.00	8.00	160
143	42.2.1			Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required. R.S. Joist 175x90 - 19.3 kg/metre	metre	22.00	1467.00	32274
144	42.2.6			Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required. H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	metre	132.00	2843.00	375276
145	34.4.2			Primer coat over new steel & other metallic surface with red oxide/zinc chromide paint complete with material,labour including preparation of surface	sqm	140.00	76.00	10640
146	34.4.3			Prima coat with aluminium paint, brushing complete with material and labour including preparation of surface	sqm	140.00	96.00	13440
147	42.4.2			Supplying for prestressed cement concrete (PCC) pole confirming to IS:785 at work site including required transportation. PCC pole 9.1 m long, 280 Kg	each	6.00	5099.00	30594
148	42.21			Erection of R.C.C./P.C.C. pole of length 8m but not exceeding 11 m in brick ballast & ramming the foundation including excavation & refilling etc. as required.	each	6.00	2282.00	13692
149	42.5.3			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) AAAC 0.075 sq inch (80 sq.mm Al. E.Q.)- (Raccoon)	KM	2.64	79735.00	210500
150	42.9			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	0.45	15675.00	7054
151	42.19			Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length exceeding 7 metres but not exceeding 10 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	2.00	4074.00	8148
152	42.20			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	12.00	5289.00	63468
153	42.26			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	9.00	4600.00	41400
154	42.42			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	1500.00	105.00	157500
155	42.52			Supplying and erection of 11KV (5 KN) polymer pin insulator complete with long steel head G.I. pin, nut, washer etc. as required.	each	51.00	402.00	20502
156	42.53			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	6.00	502.00	3012
157	42.58			Supplying and erection of single piece nonlinear resistor type lighting arrestor (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	1.00	3832.00	3832
158	42.62.1			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.) 11 KV, 400Amp	Set	1.00	8989.00	8989

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
159	42.63.1			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. 11KV	Set	1.00	4721.00	4721
160	42.67			Supply & fixing anti climbing device with 2 ply G.I. barbed wire 1 Kg. per pole complete as per MPMKVVCO. Specification.	each	18.00	231.00	4158
161	42.68			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	20.00	293.00	5860
162	42.69			Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure/poles.	each	18.00	205.00	3690
163	42.70.3.3			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. Energy efficiency level -3 Aluminium wound 100 KVA	each	1.00	348160.00	348160
164	42.75			Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire 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.	sqm	9.00	1821.00	16389
165	26.28.4			Supplying & fixing of fire extinguisher/refills as per IS specification ABC type duly refilled 6 Kg & ready to use	each	24.00	4629.00	111096
166	42.77.5			4 buckets set with sand, self-supported M.S. stand i/c shed duly painted with red colour as per IS.	each	14.00	5089.00	71246
167	42.77			Supply of rubber mat 2 x 1.0Mtr, 1100V tested	each	8.00	1913.00	15304
168	42.78			Supply of hand gloves 11KV tested	each	1.00	1077.00	1077
169	42.80			Supply of fiber discharge rod I/C connection copper lead tested	each	1.00	4042.00	4042
170	42.81			Supply of fiber D.O operating rod for 11/33KV tested	each	1.00	3854.00	3854
171	42.82			Supply of first aid box complete with medicine & bandage as per specification.	set	18.00	1646.00	29628
172	42.83			Supply of shock instruction chart duly framed with glass, as reqd.	each	6.00	539.00	3234
173	42.88.3			Collection and spreading of metal dust, murum and 40mm graded hard metal in sub-station yard or as required as mentioned below - Metal 40 mm	Cum	3.00	1478.00	4434
174	42.90.2.5			Supplying & drawing/laying of PVC insulated XLPE aerial bunch power cable conductor H2/H4 grade aluminium solid/stranded conforming to IS-14255- 1995, alu. alloy insulated messenger 1100 volts grade cable of approved make in air with necessary material as per specification of required size as mentioned below – Single core cable(insulated neutral messenger) 3x95 sq.mm, 1x16(st. light), 1x50(insulated neutral messenger)	Per Metre	150.00	647.00	97050
175	42.91			Supplying & fixing of aerial bunch cable accessories suspension clamp i/c required attachment for single core cable of approved make on pole with clamp, necessary material as per specification for required size.	each	6.00	427.00	2562
176	42.92			Supplying & fixing of aerial bunch cable accessories tension clamp (dead end) i/c required attachment for single core cable of approved make in air with clamp, necessary material as per specification for required size.	each	4.00	446.00	1784
177	42.93.1			Supplying & fixing of waterproof insulation piercing connector for aerial bunch cable i/c required attachment for single core cable of approved make in air with necessary material as per specification of required size as mentioned below – Main:16-95sq.mm, tap:1.5-50sq.mm	each	24.00	172.00	4128
178	42.94.2.1			Supplying & fixing of spring loaded busbar screwless connector with enclosure of approved make including required clamp, nut, bolt, connection, testing as per specification to complete the job. Three Phase 3Ph, 1In+2Out	each	6.00	4746.00	28476

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
179	42.116			Supply, installation, testing & commissioning of LT trivector energy meter, DLMS compliant category-A (for substation/feeder metering) , 3 phase 4 wire, 440 Volts, 5 Amp, accuracy class 0.5S with GSM(GPRS compatible) modem suitable for required C.T. 5A duly tested from electricity board with uPVC box .	each	1.00	14882.00	14882
180	31.13.3			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. 90Watt, color temp 3000-6500k as required.	each	35.00	14173.00	496055
181	41.1.10.2			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 4 core armoured 10 sq. mm.	metre	346.00	181.00	62626
182	41.5.1.2			Brass compression gland Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete. Gland size 22mm suitable for cable 2/3, 3½, 2/4 x 10 sq. mm or 2x 16 sq. mm	each	16.00	97.00	1552
183	41.6.2			Supplying and fixing ferrules as per IS - specification suitable for following size of cable for circuit identification including connection as required complete For conductor size- 10.00 sq. mm	each	46.00	4.00	184
184	41.8.2.1			Supplying & fixing pin terminal lugs as per ISS specification suitable for cable evenly cramped with high pressure tool & connection to switch gear terminal as required complete.Copper lugs pin type Upto 16 sq. mm conductor size	each	38.00	30.00	1140
185	41.15.1			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	346.00	230.00	79580
186	42.16			Supplying and fixing of MCB/Connector mounting Corrosion proof mild steel DIN Rail of thickness 2.5mm to 4mm in existing box as required as per specification:	Per Metre	4.00	107.00	428
187	42.17.2			Supply and fixing of single pole connector DIN Rail mounted Insulating body made from Polyamide 6.6 conforms to UL 94 standard, IEC 60947-7-1, 1000Volt in existing box as required as per specification: Suitable for 6sqmm-16sq mm cable	each	12.00	68.00	816
188	42.98.5			Providing and erection of hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box, suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade) complete, erected in an approved manner on provided foundation. 7 meter height, 130 X 70mm A/F, 220x220x12mm base plate, 4 nos. X 20 x 700mm bolt	each	25.00	9863.00	246575
189	42.102			Providing and fixing of Fiber Glass Reinforced Polymer (FRP)/Glass Reinforced Polymer (GRP) pole Single arm bracket duly painted of required shade upto 1.5 meter long.	each	20.00	3689.00	73780
190	42.103			Providing and fixing of Fiber Glass Reinforced Polymer (FRP)/Glass Reinforced Polymer (GRP) pole Double arm bracket duly painted of required shade upto 1.5 meter long.	each	5.00	4292.00	21460
191	48.1.10			Supply,installation,testing & commissioning of Diesel Generator set three phase,water cooled with AMF control panel,75 KVA,415 Volt with electronic governor	each	1.00	1486101.00	1486101
192	42.99			Providing and fixing of bakelite sheet 10mm thick, one MCB 6Amp-32Amp SP & 16sq.mm stud type 4 way epoxy connector for decorative designer poles /octagonal pole box.	each	25.00	323.00	8075

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
193	52.3.1			Astro time switch – For lights on-off based on sunrise and sunset timing Supply, installation, testing and commissioning of astro-time switch based on astro program i.e. calculation of sunrise and sunset times through date, time and Indian PIN codes. It shall have an option of astro ON period override by time switch and Offset function which allows programming of switching times offset from the astronomic time. The 230 V AC operated astro time switch shall have an operating range of 96...253V AC with 1 NO, 16 A, AgSnO2 contact material with starting current of 120A and 1 CO cadmium free contacts, it shall have LCD status indication with back light display along with internal easily replaceable battery on the front side for set-up and programming. The electrical life at rated load AC1 shall be 1 lakh cycles and shall work at an ambient temperature of -20 to +50 deg C. It shall have a dielectric strength between supply and open contacts of 4000V AC, between open contacts 1000V AC respectively and rated impulse voltage	each	1.00	9524.00	9524
194	52.6.1			Modular contactor for the lighting feeder panel Supply, installation, testing and commissioning of 25A rating four pole contactor, designed specific contact material AgSnO2 for lamp loads and AC load for high starting current. It shall work at an ambient temperature of -20 to +50 deg C and auto-On Off selector version. It shall have 3 Kv short circuit protections. The mounting shall be on 35 mm DIN rail (EN 60715)	each	1.00	4181.00	4181
195	52.7.1.3			Supply, installation, testing and commissioning of SOVP device should have single high capacity varistor in the L-N plug and encapsulated spark gap for N-PE. L-N SOVP should have a rated voltage of minimum 320VAC to handle Indian power supply conditions. SOVP should have visual indication on replaceable varistor and spark gap modules as well as a potential free contact on the socket for remote indication. SOVP device should be wired up as per TT configuration of wiring in accordance with EN 61643-11 standards. Both the L-N and N- PE, SPDs should be rated for handling 30KA of nominal 8/20 µs surge current. SOVP for pole light - Type 2 pluggable SPD 1+1, rating L-N/N-PE Uc 230/400 V In 5 KA, Imax 10 KA, Up 1.2KV.	each	1.00	4534.00	4534
196	54.5.1			2MP IP varifocal MFZ 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	30.00	16280.00	488400
197	54.23.1			Supply, Installation testing and commissioning of 32 channel NVR With 1080p real-time live view H.265/H.264 MJPEG dual codec decoding up to 12 MP resolution preview & playback max 320 MBPS incoming bandwidth support 8 SATA HDDs up to 64TB, supports fisheye video de-warping in local and web user interface, supports visual or auditory notifications(a flashing light, bell, or siren) complete with UL certification	each	1.00	140084.00	140084
198	57.2.1			Supply, installation, testing & commissioning of LED Television 4 K LED Display O.S. webs/Android or equivalent, minimum 50 HZ refresh rate min 20 W speaker, Wifi/bluetooth enabled, minimum 2 HDMI & 1 USB port i/c remote & wall/table top accessories 32 "	each	2.00	20257.00	40514
199	38.17.1			Supply, installation testing and commissioning of wall mounting rack, for computer switches/Patch Panel etc complete as mentioned below :- 6U cabinet with min. Dimensions 366X600X600, wall mounting with 6 point 5 Amp. socket power supply strip, and fan, cable manager, tray as per Site requirement	each	2.00	9753.00	19506
200	38.10			Supply, Installation testing and commissioning RJ - 45 Computer Jack cat 6 with shutter Modular (2Module)	each	24.00	689.00	16536
201	38.12			Supplying and drawing 4 pair shielded twisted pair(STP), 0.5 mm PVC. Insulated copper conductor un-armoured Cat-6 computer cable FR inexisting surface/ concealed, steel / PVC. Conduit/Casing-N-Capping as required.	metre	316.00	104.00	32864
202	16.1.2			Supplying and fixing PVC conduit ISI marked along with the accessories in concealed system etc. as required PVC Conduit 25 mm (HMS)	metre	294.00	74.00	21756

S.NO	SOR		ITEM	DIS	UNIT	QTY	RATE	AMOUNT
203	55.1.3			Supply,installation,testing & commissioning of flat plate collector solar water heating system having water circulation natural thermo syphon suitable for inlet water with chloride hardness upto 600 ppm comprising of copper collector box coated with aluminium outer casing,absorber coating with chrome selective coating header & riser electrolytic copper tube OD 24.7/12.7 mm with special type groove & embossing including absorber fins,riser tubes with four brass flanges 62 mm outer diameter Aluminium housing frame 2094x1018x90 mm,overall area 2.13 sq mm polyster powder coating ,reflector sheet highly reflective thin aluminium foil. Gaskets & grommets EPDM rubber suitable for high temperature,nut bolts & screws stainless steel confirming to MNRE guidelines for 500 Ltr capacity	each	2.00	121889.00	243778
204	57.2.4			Supply,installation,testing & commissioning of LED Television 4 K LED Display O.S. webs/Android or equivalent,minimum 50 HZ refresh rate min 20 W speaker,Wifi/bluetooth enabled,minimum 2 HDMI & 1 USB port i/c remote & wall/table top accessories 55 "	each	1.00	50997.00	50997
205	57.1.6			Supply,installation,testing & commissioning of refrigerator minimum 3 star rating,smart inverter compressor,single/multy door with base stand/drawer & other material etc as required,warranty minimum 1 year comprehensive warranty on complete product & a 10 year warranty on the compressor 700 Ltr capacity	each	1.00	146034.00	146034
206	57.3.3			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 80 Ltr	each	4.00	97575.00	390300
207	57.4			Supply, installation, testing & commissioning of Domestic water purifier RO+UV+MTDS Plant with sediment filtration having minimum purifying capacity of 50LPH per hour. Suitable for reducing hardness, TDS, heavy metal contaminants, and pathogenic micro organism, operating input voltage 230V AC/50 Hz	each	4.00	74520.00	298080
							TOTAL ELE (B)	12169174
							TOTAL (A+B)	82218397


S.E. (B)
PWD DHAR


A.E. (B)
PWD DHAR


E.E. (B)
PWD DHAR