

Name of Project:-		ESTIMATE FOR THE PROPOSED CONSTRUCTION OF (NEW KANYA SIKSHA PARISAR) 490 SCHOOL, 280 SEATED GIRLS HOSTEL -1 NOS, 210 SEATED GIRLS HOSTEL -1 NOS, F-TYPE QUARTER 2 NOS, G-TYPE QUARTER 14 NOS, 300 CAPACITY MESS AND I-TYPE QUARTER 4 NOS AT AMLA DISTRICT BETUL IN M.P.						
Probable Amount of Contract (PAC In Rs)							3197.74	LACS
BILL OF QUANTITIES (BOQ)								
S.NO.			ITEM	QTY	UNIT	Rate	Amount	Remark
1			2	3	4	5	6	
1			SOR I.No 2.1 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.					
			TOTAL	321.30	SQM./100	803.00	258004.00	
2			SOR I.No 2.6 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in over areas foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
			TOTAL	13602.29	cum	147.00	1999537.00	
3			SOR I.No 2.25.1 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 All kinds of soil.					
			TOTAL	2289.10	cum	30.00	68673.00	
4			SOR I.No 2.25.2 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) 2.25.2 Ordinary or hard rock.					
			TOTAL	14.24	cum	53.00	755.00	
5			S.O.R.I.NO. 4.1.1.4 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : With 20 mm nominal					
			TOTAL	909.51	CUM.	3890.00	3537994.00	
6			SOR I.No 5.16.6 Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage 5.16.6 Thermo-Mechanically Treated bars.(TMT)					
			TOTAL	871855.51	KG.	80.00	69748441.00	
7			SOR I.No 5.30.1 Providing and laying in position ready mixed concrete (RMC) of M-20 grade for reinforced cement concrete work, using cement content as per approved design mix and					
			TOTAL	3048.96	CUM.	6332.00	19306015.00	
8			SOR I.No 5.9.1 Centering and shuttering in cluding strutting, propping etc. and removal of form for: 5.9.1 Foundations, footings, bases of					
			TOTAL	3796.75	SQM.	190.60	723661.00	
9			SOR I.No 5.9.6 Columns, P i l l a r s , Piers, Abutments, Posts and Struts.					
			TOTAL	13453.73	SQM.	471.20	6339398.00	
10			S.O.R.I.NO.2.24 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					
			TOTAL	7292.85	SQM	95.00	692821.00	
11			S.O.R.I.NO.2.27.2 Supplying and filing in plinth with soil (other then BC soil) having MDD not less than 1.85 t/m3 under floors including watering, ramming and compacting (minimum					
			TOTAL	9102.37	CUM	331.00	3012884.00	
12			S.O.R.I.NO. 5.9.2.1 Walls (any thickness) including attached pilasters buttresses, plinth beams and string courses etc.up to plinth level.					
			TOTAL	9898.86	sqm	219.00	2167850.00	
13			S.O.R.I.NO.2.27.1 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					
			TOTAL	4162.00	CUM.	393.00	1635666.00	

14			SOR I.No 4.1.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level -With 20mm nominal size graded					
			TOTAL	551.67	cum	4471.00	2466517.00	
15			S.O.R.I.NO.2.26 Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and					
			TOTAL	1535.73	cum	672.00	1032011.00	
16			S.O.R.I.NO.2.32 Preconstruction antitermite treatment to the building under construction by providing.)					
			TOTAL	6063.42	sqm	136.00	824625.00	
17			S.O.R.I.NO.2.29 Supplying chemical emulsion in sealed containers including delivery as specified. (Chlorpyriphos/ Lindane emulsifiable					
			TOTAL	8794.68	ltr/sqm	174.00	1530274.00	
18			SOR I.No 1.1.2 Transportation By Mechanical Transport including loading, unloading and stacking. Earth 5 km					
			TOTAL	4646.36	KM	207.04	961982.00	
19			SOR I.No 5.30.2 Providing and laying in position ready mixed concrete (RMC) of M-25 grade for reinforced cement concrete work, using cement content as per approved design mix and					
			5.30.2 All works above plinth level and upto floor V level					
			TOTAL	3257.94	CUM.	6814.00	22199603.00	
20			S.O.R.I.NO. 5.9.21 Lintels, beams, columns, girders, bressumers and cantilevers with waterproof ply 12 mm thick					
			TOTAL	9994.15	SQM	521.20	5208951.00	
21			SOR I.NO 5.9.20 Suspended floors, roofs, landings, balconies and Access platform. With water proof ply 12 mm thick.					
			TOTAL	8801.84	sqm	575.35	5064139.00	
22			S.O.R.I.NO. 4.12 Extra for providing and mixing water proofing Nmaterial as per IS standard in cement concrete work quantity as prescribed by the manufacturer.					
			TOTAL	17881.00	bags	44.00	786764.00	
23			SOR I.NO 6.26.1 Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry, using AAC blocks (Size length 300,					
			TOTAL	3539.17	sqm	5500.00	19465435.00	
24			S.O.R.I.NO. 10.13.1 Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred,					
			TOTAL	9358.87	KG.	116.20	1087501.00	
25			S.O.R.I.NO. 9.43.1 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete. Fixed to openings /wooden frames with rawl plugs screws					
			TOTAL	14512.43	KG.	119.00	1726979.00	
26			S.O.R.I.NO. 5.9.19 Weather shade, Chajjas, corbels etc., including Edges.					
			TOTAL	1184.82	sqm	534.20	632931.00	
27			SOR Item No 11.78.1.1 Providing and laying vitrified floor tiles Multi/Double charged (Minimum top layer thickness 2.0mm) Neno Polished self design, in					
			TOTAL	1031.10	sqm	1104.00	1138334.00	
28			SOR Item No 11.79.1.1 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					
			TOTAL	113.36	sqm	1093.00	123902.00	
29			SOR Item No 11.53 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					
			TOTAL	2020.31	sqm	880.00	1777873.00	
30			SOR Item No 11.51 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.					
			TOTAL	850.36	sqm	644.00	547632.00	

31			SOR Item No 11.52 Providing and laying rectified Glazed Ceramic wall tiles 300x450 mm or more (thickness to be specified by the manufacturer) of					
			TOTAL	3731.75	sqm	698.00	2604762.00	
32			SOR Item No 11.22 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					
			SOR Item No 11.22.5 Cuddpah stone					
			TOTAL	279.22	sqm	1279.00	357122.00	
33			SOR I.No 11.41 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					
			TOTAL	222.00	each	167.00	37074.00	
34			SOR I.No 11.42 Extra for providing opening of required size and shape for wash basins/ kitchen sink in kitchen platform, vanity counters and					
			TOTAL	1.00	each	232.00	232.00	
35			SOR Item No 11.22.1 Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for					
			SOR Item No 11.22.1 Raj Nagar plain/White Marble/Udaipur Green Marble /Zebra black					
			TOTAL	1493.53	sqm	1797.00	2683873.00	
36			SOR Item No 11.34 Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.					
			TOTAL	346.47	sqm	3413.00	1182502.00	
37			SOR Item No 11.40.2 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					
			TOTAL	199.00	RM	269.00	53531.00	
38			S.O.R.I.NO.10.25 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making					
			TOTAL	5327.90	KG	582.00	3100838.00	
39			SOR I.No 13.8 6 mm cement plaster of mix : 1:3 (1 cement : 3 sand)					
			TOTAL	8971.59	sqm	144.00	1291909.00	
40			SOR Item No 13.1.2 12 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement : 6 sand)					
			TOTAL	14583.04	sqm	160.00	2333286.00	
41			SOR Item No 13.2.1 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement : 4 sand)					
			TOTAL	20486.57	sqm	184.00	3769529.00	
42			SOR I.No 13.6 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 sand) finished with a top layer					
			TOTAL	10442.82	sqm	220.00	2297420.00	
43			SOR Item No 5.24.2 Providing for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections. Preparation of Drip course					
			TOTAL	1118.95	RM	30.00	33569.00	
44			SOR I.No 12.26 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					
			TOTAL	2331.41	RM	99.00	230810.00	
45			SOR I.No 13.9 6 mm cement plaster 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.					
			TOTAL	658.95	sqm	189.00	124542.00	
46			S.O.R.I.NO. 13.27.1 Providing and fixing mesh in vertical and horizontal junction of RCC and brick/AAC work including scaffolding and all lead and lift etc. complete chicken mesh as per ISI specification and in the required					
			TOTAL	3793.98	sqm	62.00	235227.00	
47			SOR Item No 13.67.3 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
			TOTAL	52856.73	sqm	24.00	1268562.00	

48			S.O.R.I.NO 13.41 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				
			TOTAL	52289.76	sqm	74.00	3869442.00
49			S.O.R.I.NO. 13.49 Wall painting by any mechanical or manual means with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound)				
			TOTAL	1896.60	sqm	90.00	170694.00
50			S.O.R.I.NO. 13.52 Finishing walls by any mechanical or manual means with Acrylic Smooth exterior paint (Economy Exterior) of required shade including all scaffolding. New				
			TOTAL	16538.06	sqm	138.00	2282252.00
51			SOR Item No 13.14 Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the				
			TOTAL	3955.10	sqm	79.00	312453.00
52			S.O.R.I.NO. 13.64. Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.				
			TOTAL	3235.02	sqm	53.00	171456.00
53			S.O.R.I.NO 13.67.2 Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) as per test. With				
			TOTAL	3228.80	sqm	24.00	77491.00
54			SOR Item No 12.27 Making khurras 45x45 cm (sunk area) with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate of 20 mm nominal size)				
			TOTAL	126.00	each	156.00	19656.00
55			SOR Item No 12.36 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.				
			TOTAL	193.00	each	95.00	18335.00
56			S.O.R.I.NO. 12.32.2 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.				
			TOTAL	972.10	RM	238.00	231360.00
57			S.O.R.I.NO. 12.33.1.2 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				
			TOTAL	364.00	EACH	102.00	37128.00
58			S.O.R.I.NO. 12.33.5.2 Providing and fixing on wall face Unplasticised - UPVC moulded fittings/ accessories for Unplasticised Rigid PVC rain water pipes conforming				
			TOTAL	0.00	EACH	112.00	0.00
59			S.O.R.I.NO. 12.33.6.2 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. 110 mm Shoe				
			TOTAL	368.00	EACH	99.00	36432.00
60			S.O.R.I.NO. 12.34.2 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.				
			TOTAL	1132.00	EACH	114.00	129048.00
61			SOR Item No 22.14.1 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)				
			TOTAL	217.80	CUM	6569.00	1430728.00
62			SOR Item No 22.6 Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement				
			TOTAL	6223.61	sqm	338.00	2103580.00

63			SOR I.No 11.66 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					
			TOTAL	0.00	sqm	642.00	0.00	
64			S.O.R.I NO. 6.7.3.2 Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor II level in :					
			TOTAL	615.97	cum	4936.00	3040428.00	
65			SOR Item No 22.5 Providing and laying water proofing treatment in sunken portion of WCs,bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water					
			TOTAL	2788.28	sqm	207.00	577174.00	
66			SOR Item No 4.26 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					
			TOTAL	181.05	cum	3140.00	568497.00	
67			S.O.R.I NO. 4.2.1.3 BProviding and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts,					
			TOTAL	68.87	cum	4714.00	324653.00	
68			SOR I.No 9.203.1 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					
			SOR I.No 9.203.1 35mm thick including 4 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary screws.					
			TOTAL	750.28	sqm	3339.00	2505185.00	
69			SOR I.No 9.21 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).					
			TOTAL	1293.22	sqm	401.00	518581.00	
70			SOR I.No 9.24 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).					
			TOTAL	1328.86	sqm	93.00	123584.00	
71			SOR I.No 9.169.2 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					
			TOTAL	1139.35	RM	720.00	820332.00	
72			S.O.R.I.NO. 9.170.1 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					
			TOTAL	365.06	SQM	2250.00	821385.00	
73			SOR Item No 9.65 Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:					
			SOR I.No 9.65.2 250x16 mm					
			TOTAL	625.00	each	326.00	203750.00	
74			SOR I.No 9.69 Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete :					
			SOR I.No 9.69.1 125 mm					
			TOTAL	1746.00	each	60.00	104760.00	
75			SOR I.No 9.76 Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.					
			TOTAL	651.00	each	103.00	67053.00	
76			SOR I.No 9.68 Providing and fixing ISI marked stainless steel door latches with screws etc. complete :					
			SOR I.No 9.68.2 250x20x6 mm					
			TOTAL	493.00	each	173.00	85289.00	
77			SOR I.No 9.66 Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete :					
			SOR I.No 9.66.1 250x10 mm					
			TOTAL	713.00	each	148.00	105524.00	
78			SOR I.No 9.66.2 200x10 mm					
			TOTAL	4.00	each	93.00	372.00	

79			SOR I.No 21.9 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-					
			TOTAL	3236.10	RM	53.00	171513.00	
80			S.O.R.I.NO.10.3 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					
			TOTAL	118.44	sqm	4132.00	489394.00	
81			S.O.R.I.NO. 17.1.1 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					
			TOTAL	37.00	each	2995.00	110815.00	
82			S.O.R.I.NO. 17.3.1 Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern and C.P. flush bend with fittings and C.I.brackets,					
			TOTAL	29.00	each	4613.00	133777.00	
83			S.O.R.I.NO. 17.11 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					
			S.O.R.I.NO. 17.11.10 Oval shape wash basin over counter /under counter with 15 mm C.P brass pillar tap (Counter to be paid sepraty).					
			TOTAL	41.00	each	7153.00	293273.00	
84			SOR I.No 17.11 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of					
			SOR I.No 17.11.2 White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.					
			TOTAL	23.00	each	2187.00	50301.00	
85			SOR I.No 17.14 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					
			SOR I.No 17.14.1.1 510x1040 mm bowl depth 250 mm.					
			TOTAL	27.00	each	8074.00	217998.00	
86			S.O.R.I.NO. 18.61 Providing and fixing CP jet assembly to including connection etc complete.					
			TOTAL	56.00	each	375.00	21000.00	
87			S.O.R.I.NO. 17.68.2 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					
			TOTAL	117.00	sqm	642.00	75114.00	
88			S.O.R.I.NO. 17.70.1 Providing and fixing toilet paper holder: C.P brass					
			TOTAL	58.00	each	340.00	19720.00	
89			S.O.R.I.NO. 17.72 Providing and fixing CP brass bottle trap of approved quality and make for sink and wash basin.					
			TOTAL	159.00	each	853.00	135627.00	
90			S.O.R.I.NO. 17.73.1 Providing and fixing CP brass towel rail of approved quality and make 600 x 20mm					
			TOTAL	51.00	each	952.00	48552.00	
91			S.O.R.I.NO. 17.74 Providing and fixing CP brass towel ring of approved quality and make 200mm dia ring					
			TOTAL	146.00	each	679.00	99134.00	
92			S.O.R.I.NO. 17.75 Providing and fixing CP brass soap dish of approved quality and make					
			TOTAL	38.00	each	422.00	16036.00	
93			S.O.R.I.NO. 17.77 PProviding 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.					
			TOTAL	36.00	each	1175.00	42300.00	
94			SOR I.No 17.78.1 Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification.					
			TOTAL	476.00	each	74.00	35224.00	
95			SOR I.No 18.31 Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931, 15 mm nominal bore.					

			TOTAL	134.00	each	840.00	112560.00	
96			SOR I.No 18.32 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.					
			TOTAL	48.00	each	1258.00	60384.00	
97			SOR I.No 18.33 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					
			TOTAL	69.00	each	1272.00	87768.00	
98			SOR I.No 18.34 Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS: 8931. 15 mm nominal bore.					
			TOTAL	135.00	each	1155.00	155925.00	
99			SOR I.No 18.37 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.					
			TOTAL	70.00	each	1188.00	83160.00	
100			SOR I.No 18.39 Providing and fixing C.P. brass wall mixer of approved quality and make conforming to IS: specification. 15 mm nominal bore.					
			TOTAL	36.00	each	4344.00	156384.00	
101			SOR I.No 18.43.2 Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 18.43.2 150 mm diameter					
			TOTAL	37.00	each	922.00	34114.00	
102			S.O.R.I.NO.18.28 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					
			TOTAL	84500.00	ltr	7.00	591500.00	
103			S.O.R.I.NO.18.51.2 Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with I.P / H.P.H.D. plastic ball 20 mm nominal bore					
			TOTAL	64.00	each	314.00	20096.00	
104			S.O.R.I.NO.18.13.1 Providing and fixing CPVC gate valve with knob of approved quality.					
			TOTAL	64.00	each	428.00	27392.00	
105			SOR I.No 18.57 Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole					
			TOTAL	392.00	each	129.00	50568.00	
106			SOR I.No 25.37 Providing and fixing in position best Indian Health Faucet with 8mm dia 1 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall).(Premium Range Sanitary Ware)					
			TOTAL	74.00	each	1818.00	134532.00	
107			SOR I.No 18.6.2.1 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water					
			TOTAL	322.80	RM	207.00	66820.00	
108			SOR I.No 18.6.2.2 Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply					
			TOTAL	796.98	RM	234.00	186493.00	
109			SOR I.No 18.7.6 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 onestep CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in- Charge. External Work 18.7.6 50 mm nominal outer dia .Pipes.					
			TOTAL	1871.60	RM	498.00	932057.00	
110			SOR Item No 17.32.1.2 Providing and fixing soil, waste and vent pipes: Sand cast iron socket and spigot (S&S) pipe as per IS: 1729 17.32.1.2 100 mm dia with wall thickness of 5 mm					
			TOTAL	777.57	RM	970.00	754243.00	
111			SOR Item No 17.54.1.2 Providing and fixing collar: 100 mm 17.54.1.2 Spun cast Sand cast iron S & S as per IS - 3989					

			TOTAL	526.00	each	317.00	166742.00	
112			SOR Item No 17.57.1.2 Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm					
			TOTAL	142.00	RM	610.00	86620.00	
113			SOR Item No 17.38.2.1 Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete : 100x100x100x100mm Sand cast iron as per IS - 1729					
			TOTAL	111.00	each	744.00	82584.00	
114			SOR Item No 17.36.2.2 Providing and fixing plain bend of required degree. 100 mm dia Spun cast iron as per IS - 3989 minimum wall thickness 3.5 mm					
			TOTAL	218.00	RM	390.00	85020.00	
115			SOR Item No 17.55 Lead caulked joints to C.I. pipes & fittings					
			SOR Item No 17.55.2 100 mm					
			TOTAL	1765.00	each	234.00	413010.00	
116			SOR Item No 17.53.2.2 Providing and fixing terminal guard 100mm Spun cast iron as per IS - 3989					
			TOTAL	90.00	RM	300.00	27000.00	
117			SOR Item No 17.34.2 Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and					
			TOTAL	554.00	each	66.00	36564.00	
118			SOR Item No 17.32.1.1 Providing and fixing soil, waste and vent pipes: Sand cast iron socket and spigot (S&S) pipe as per IS: 1729 17.32.1.1 75 mm dia with wall thickness of 5 mm					
			TOTAL	1036.48	each	790.00	818819.00	
119			SOR Item No 17.54.2.2 Providing and fixing collar: 75 mm 17.54.2.2 Spun cast Sand cast iron S & S as per IS - 3989					
			TOTAL	848.00	each	219.00	185712.00	
120			SOR Item No 17.57.2.1 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 : 100 mm inlet and 75 mm outlet					
			TOTAL	410.00	each	854.00	350140.00	
121			SOR Item No 17.38.3.2 Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick					
			TOTAL	252.00	each	654.00	164808.00	
122			SOR Item No 17.36.3.1 Providing and fixing plain bend of required degree. 100 mm dia Spun cast iron as per IS - 3989 minimum wall thickness 3.5 mm					
			TOTAL	613.00	each	230.00	140990.00	
123			SOR Item No 17.55 Lead caulked joints to C.I. pipes & fittings					
			SOR Item No 17.55.3 75 mm					
			TOTAL	3126.00	each	201.00	628326.00	
124			SOR Item No 17.53.3.2 Providing and fixing terminal guard 75mm Spun cast iron as per IS - 3989					
			TOTAL	49.00	each	210.00	10290.00	
125			SOR Item No 17.34.1 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					
			TOTAL	546.00	each	37.00	20202.00	
126			SOR I.NO. 21.1.1.2 Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard					
			TOTAL	9172.55	kg	416.00	3815781.00	
127			SOR I.NO. 21.1.2.2 For shutters of doors, windows and ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings where ever required including the					
			TOTAL	5565.35	kg	484.00	2693629.00	
128			SOR I.NO. 21.3.1 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene					
			TOTAL	1253.28	Sqm	774.00	970039.00	
129			SOR I.NO. 21.4.1 Add extra for providing and fixing frosted glass instead of float glass With glass panes of 4.00 mm thickness					
			TOTAL	784.85	Sqm	259.00	203276.00	

130			SOR I.No. 10.26.2 Providing and fixing fly proof wire gauze to windows, clerestory windows and doors with M.S. Flat 15x3mm and nuts and bolts complete. Stainless steel				
			TOTAL	294.00	Sqm	1334.00	392196.00
131			SOR I.No 21.20 Providing and fixing 50 micron thick Frosted heat /light control film to window/door glazing with complete accessories				
			TOTAL	358.60	Sqm	518.00	185755.00
132			SOR I.No 9.95 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				
			TOTAL	36.00	each	1186.00	42696.00
133			SOR 5.9.7 Centering and shuttering in cluding strutting, propping etc. and removal of form for: 5.9.7 Stairs, (excluding landings) except spiral- Staircases.				
			TOTAL	715.80	KG.	435.70	311874.00
134			S.O.R.I NO. 6.15.3.2 Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS : 12894, in super structure above plinth and upto floor two level. having 50				
			TOTAL	463.16	SQM	459.00	212590.00
135			S.O.R.I NO. 6.17 Extra for providing and placing in position 2 Nos. 8mm dia. M.S. bars at every third course of half brick masonry.				
			TOTAL	455.96	SQM	127.00	57907.00
136			SOR Item No 11.38.1 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				
			TOTAL	2.30	SQM	1177.00	2707.00
137			SOR Item No 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				
			TOTAL	6663.19	sqm	1174.00	7822585.00
138			S.O.R.I.NO. 13.54.3 Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications				
			TOTAL	34462.15	sqm	81.00	2791434.00
139			SOR Item No 11.40.2 Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to				
			TOTAL	5600.73	RM	269.00	1506596.00
140			SOR Item No 11.40.1 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. 11.40.1 Marble work				
			TOTAL	28.40	RM	164.00	4658.00
141			SOR I.No 18.35 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:893115 mm nominal bore				
			TOTAL	41.00	each	714.00	29274.00
142			SOR Item No 13.100 Glass Fiber Reinforcement of Size 6mm for Plastering: Supplying and providing Glass fibers of 6mm to use in plastering work, recommended doses in 100gm per bag of cement having benefit of anti-cracking used as				
			TOTAL	3.15	KG	250.00	788.00
143			SOR I.No 16.1 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				
			All types of soil upto 90 metre depth.				
			SOR I.No 16.1.1.3 200 mm dia.				
			TOTAL	180.00	RM	451.00	81180.00
144			SOR I.No 16.1 Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I) including Rocky strata including Boulders.Upto 90 metre depth.				
			SOR I.No 16.1.2.2 150 mm dia.				
			TOTAL	180.00	RM	625.00	112500.00
145			SOR I.No 16.3 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				

			SOR I.No 16.3.3 200 mm nominal size dia.				
			TOTAL	180.00	RM	878.00	158040.00
146			SOR I.No 16.4.2 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 confirming to IS: 4370				
			SOR I.No 16.4.2 150 mm nominal size dia having minimum wall thickness 4.85 mm.				
			TOTAL	160.00	RM	1191.00	190560.00
147			SOR I.No 16.9.2 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:				
			SOR I.No 16.9.2 150 mm nominal size dia having minimum wall thickness 4.85 mm.				
			TOTAL	2.00	each	1129.00	2258.00
148			SOR I.No 16.10 Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:				
			SOR I.No 16.10.2 150 mm dia				
			TOTAL	2.00	each	242.00	484.00
149			SOR I.No 16.16 Supplying, filling, spreading and leveling gravels of size range 5 mm to 10 mm in the recharge pit over the				
			TOTAL	12.80	cum	877.00	11226.00
150			SOR I.No 16.17 Supplying, filling, spreading and leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over				
			TOTAL	12.60	cum	819.00	10319.00
151			SOR I.No 18.8 Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.External work : including				
			SOR I.No 18.8.3.5 40 mm dia. nominal bore				
			TOTAL	300.00	RM	402.00	120600.00
152			SOR I.No 18.8.3.6 50 mm dia. nominal bore				
			TOTAL	200.00	RM	492.00	98400.00
153			SOR I.No 18.8.3.7 65 mm dia. nominal bore				
			TOTAL	200.00	RM	533.00	106600.00
154			SOR I.No 18.8.3.8 80 mm dia. nominal bore				
			TOTAL	208.40	RM	622.00	129625.00
155			SOR I.No 18.12.1 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) - With C.I. wheel of approved				
			SOR I.No 18.12.1.3 40 mm dia. nominal bore				
			TOTAL	6.00	each	677.00	4062.00
156			SOR I.No 18.12.1.4 50 mm dia. nominal bore				
			TOTAL	8.00	each	976.00	7808.00
157			SOR I.No 18.12.1.5 65 mm dia. nominal bore				
			TOTAL	8.00	each	1339.00	10712.00
158			SOR I.No 18.12.1.6 80 mm dia. nominal bore				
			TOTAL	10.00	each	2302.00	23020.00
159			S.O.R.I.NO. 2.9.2 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				
			TOTAL	754.68	RM	156.00	117730.00
160			S.O.R.I.NO. 19.4.3 Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soil waste pipes confirming to IS:13592 and IS:4985 including				
			TOTAL	454.68	RM	751.00	341465.00
161			S.O.R.I.NO. 19.5.3 Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC.				
			TOTAL	454.68	RM	821.00	373292.00
162			S.O.R.I.NO. 19.4.2 Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soil waste pipes confirming to IS:13592 and IS:4985 including				
			TOTAL	300.00	RM	477.00	143100.00
163			S.O.R.I.NO. 19.5.2 Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC.				
			TOTAL	350.00	RM	704.00	246400.00
164			SOR I.No 19.9 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				
			SOR I.No 19.9.1 Inside size 90x80 cm and 45cm deep including C.I. cover with frame (Right data) 45x610 mm internal dimensions				
			SOR I.No 19.9.1.2 With Sewer bricks conforming to IS : 4885				
			TOTAL	103.00	each	7747.00	797941.00

165			SOR I.No 19.28 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 :					
			SOR I.No 19.28.2 With fly ash bricks 100 kg/cm2 strength					
			TOTAL	46.00	each	6983.00	321218.00	
166			SOR I.No 19.31 Constructing soak 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20m					
			TOTAL	7.00	each	3172.00	22204.00	
167			SOR I.No 19.30.1 Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class					
			TOTAL	9.00	each	20609.00	185481.00	
168			SOR I.No 19.40 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 42.76kg + 100% G.P./25MT) having lead bearing					
			TOTAL	57.00	each	10130.00	577410.00	
169			SOR I.No 19.41 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					
			TOTAL	33.00	each	3951.00	130383.00	
170			SOR I.No 19.42 Supplying and fixing of FRP/GRP composite manhole cover with frame of clear opening size 300X300mm (square) having weight of (complete unit)					
			TOTAL	10.00	each	2035.00	20350.00	
171			SOR I.No 19.27.2 Constructing brick masonry road gully chamber 50x45x60cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including					
			TOTAL	10.00	each	4900.00	49000.00	
172			SOR I.No 19.11.2 Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4					
			TOTAL	5.00	each	7958.00	39790.00	
173			SOR I.No 19.12.2 Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m					
			TOTAL	2.50	RM	4648.00	11620.00	
174			SOR I.No 19.13.2 Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4					
			TOTAL	5.00	each	15067.00	75335.00	
175			SOR I.No 19.14.2 Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29m					
			TOTAL	2.50	RM	6014.00	15035.00	
176			SOR I.No 19.15.1.2 Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in					
			TOTAL	5.00	each	32659.00	163295.00	
177			SOR I.No 19.16.2 Extra depth for circular type manhole 1.52m internal dia (at bottom) beyond 2.30 m to 2.29m					
			TOTAL	2.50	RM	14806.00	37015.00	
178			SOR I.No 19.43 Supplying and fixing of FRP/GRP composite manhole cover with frame of clear opening size 600mm (round)					
			TOTAL	15.00	each	9448.00	141720.00	
179			S.O.R.I.NO. 30.1 Designing and preparing good for construction civil, mechanical and electrical shop drawings of conventional/package unit of a Sewage Treatment Plant(STP)/ Effluent					
			S.O.R.I.NO. 30.1.2 Package Manual Bar Screen Oit, Grease Trap and Grit Removal System, Secondary treatment --Raw Sewage Transfer					
			S.O.R.I.NO. 30.1.2.1 10 KLD					
				0.00				
			TOTAL	0.00	each	1968323.00	0.00	
180			SOR I.No 5.1.1 Providing and laying in position specified grade of reinforced cement concrete (with 20mm nominal size graded stone					
			5.1.1 M-20 Grade Concrete					
			TOTAL	372.24	CUM.	6153.00	2290393.00	

181			SOR I.NO 5.2.1 Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached pilasters, buttresses, plinth and string				
			TOTAL	92.08	cum	6231.00	573750.00
182			SOR I.NO 5.3.1 Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs				
			5.3.1 M-20 Grade Concrete				
			TOTAL	27.67	CUM.	6541.00	180989.00
183			SOR Item No 13.10 Neat cement punning				
			TOTAL	215.60	sqm	30.00	6468.00
184			SOR Item No 10.22.2 Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming				
			TOTAL	264.50	KG.	105.00	27773.00
185			SOR I.No 11.72.2 60 mm thick C.C. paver block of M-35 grade				
			TOTAL	3249.40	sqm	680.00	2209592.00
186			SOR I.No 11.73 Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 sand), including making				
			TOTAL	29.00	cum	6097.00	176813.00
187			S.O.R.I.NO 10.14.1 Steel work in built up M.S. tubular section (round, square or rectangular				
			TOTAL	25951.35	KG	117.00	3036308.00
188			SOR Item No 12.15 Providing and fixing precast galvanised iron profile sheets (size, shape and pitch of corrugation as per drawing)				
			TOTAL	799.68	sqm	652.00	521391.00
189			ROAD S.O.R.I.NO.12.1.1(i) Excavation for Structures Earth work in excavation of foundation of structures as per drawing and technical				
			TOTAL	55.37	cum	79.00	4374.00
190			ROAD SOR 9.1 Plain cement concrete M-15 mix with crushed stone aggregate 40mm nominal size				
			TOTAL	15.17	cum	4225.00	64093.00
191			ROAD SOR 9.2 (B) Providing and Laying Reinforced Cement Concrete Pipe NP4/prestressed concrete pipe on first class bedding in single row. Providing and Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material (cost of bedding included) in single row including fixing collar with cement				
			TOTAL	7.50	RM	6732.00	50490.00
192			ROAD SOR 9.6 Providing concrete cradle bedding in M-15 grade concrete as per clause 2900 and as per section 1700 and 2900.				
			TOTAL	3.00	cum	4225.00	12675.00
193			ROAD SOR 13.1 Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications PCC Grade M20				
			TOTAL	5.60	cum	5195.00	29092.00
194			ROAD SOR 13.2 (i) Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and technical specifications and as per relevant clause of section 1600. FE 500				
			TOTAL	0.67	tone	80503.00	53937.00
195			ROAD SOR 13.10 (A) Back filling behind abutment, wing wall and return wall complete as per drawing and Technical specification and as per relevant clauses 305 of specifications and as				
			TOTAL	7.30	cum	665	4855.00
196			ROAD SOR 14.1 (A) Providing and Placing Reinforced/Prestressed cement concrete in super-structure e/x reinforcement as per drawing and Technical				
			TOTAL	12.42	cum	5674.00	70471.00
197			ROAD SOR 14.4 Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical				
			TOTAL	1.49	tone	82810	123387.00
198			SOR ITEM NO 10.2 Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections.				
			TOTAL	1652.83	kg	103.00	170241.00

199			S.O.R.I.NO. 10.36 Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y'				
			TOTAL	740.38	sqm	275.00	203605.00
200			SOR I.No 9.68 Providing and fixing ISI marked stainless steel door latches with screws etc. complete :				
			SOR I.No 9.68.1 300x20x6 mm				
			TOTAL	106.00	each	211.00	22366.00
201			SOR Item No 11.80.1.2 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				
			TOTAL	561.61	sqm	1206.00	677302.00
202			SOR 11.30.1.1 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,				
			TOTAL	564.31	sqm	2642.00	1490907.00
203			SOR Item No 11.80.1.3 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				
			TOTAL	276.80	SQM	1349.00	373403.00
204			SOR Item No 11.57 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				
			TOTAL	575.15	SQM	1307.00	751721.00
205			S.O.R.I.NO.11.63.3 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				
			TOTAL	16.00	each	46.00	736.00
206			S.O.R.I.NO. 17.71.2 Providing and fixing CP brass waste coupling of approved quality and make for sink and wash basin. Waste coupling				
			TOTAL	81.00	each	348.00	28188.00
207			S.O.R.I.NO. 17.96 Providing and fixing PVC pipes & fittings waste/rain water/drainage disposal of superior Indian make (as approved by Engineer incharge) i/c jointing with rubber rings, adhesive, lubricant, solvent cement PVC clips or burried				
			TOTAL	80.00	each	62.00	4960.00
208			S.O.R.I.NO. 17.97 Providing and fixing 90 degree bend PVC pipes & fittings waste/rain water/drainage disposal of superior Indian make (as approved by Engineer incharge) i/c jointing with rubber rings, adhesive, lubricant, solvent cement PVC clips or burried underground i/c				
			TOTAL	80.00	each	22.00	1760.00
209			SOR I.No 25.36 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) 2- way Bib Cock .(Premium Range)				
			TOTAL	42.00	each	2687.00	112854.00
210			SOR Item No 17.61 Providing and fixing UPVC trap of self cleaning design complete. Including cost of cutting and making good the wall and floors. 100mm inlet and 75 mm outlet				
			TOTAL	375.00	each	517.00	193875.00
211			SOR I.No 17.15.2 Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P.brass chain with rubber plug 40mm C.P.brass				
			TOTAL	20.00	each	3328.00	66560.00
212			S.O.R.I.NO. 19.4.1 Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 solid waste pipes				
			TOTAL	57.20	RM	234.00	13385.00
213			S.O.R.I.NO. 19.5.1 Providing and laying cement concrete 1:3:6 (1 cement: 3sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:				
			TOTAL	57.20	RM	576.00	32947.00

214			S.O.R.I.NO. 17.59.1.2 Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes					
			S.O.R.I.NO. 17.59.1.2 Coupler 110mm					
			TOTAL	30.00	each	154.00	4620.00	
215			S.O.R.I.NO. 17.59.5.2 Bend 87.50 110mm					
			TOTAL	8.00	each	172.00	1376.00	
216			S.O.R.I.NO. 17.59.4.2 Single tee without door 110x110x110 mm					
			TOTAL	22.00	each	266.00	5852.00	
217			S.O.R.I.NO. 25.38 Providing and fixing in position best Indian Auto Closing Pillar Cock (with DECOL cartridge) for wash basin use. (Premium Range)					
			TOTAL	20.00	each	3235.00	64700.00	
218			SOR I.No 25.79 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)					
			TOTAL	8.00	each	7413.00	59304.00	
219			SOR I.No 25.81 Providing and fixing in position best Indian, C. P. Brass grab bar vertical swing, 304 grade ss made all nuts and screws. (0.3 micron chrome and 10 micron nickel plated). (Premium Range)					
			TOTAL	8.00	each	18332.00	146656.00	
220			SOR Item No 19.4.5 Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soil waste pipes					
			TOTAL	90.90	RM	1232.00	111989.00	
221			SOR Item No 19.5.5 Providing and laying cement concrete 1:3:6 (1 cement: 3sand: 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design: 300 mm diameter PVC pipe					
			TOTAL	90.90	RM	1078.00	97990.00	
222			SOR I.No 9.150.1 Providing and fixing plain lining with necessary screws/nuts and bolts/ nails including a coat of approved primer on one face and fixed on wooden / steel frame work					
			TOTAL	20.38	sqm	1210.00	24660.00	
223			SOR I.No 9.127 Providing and fixing 2nd class teak wood lipping/ moulded beading or Taj beading of size 18x5mm fixed with wooden adhesive of approved quality and screws/ nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-charge.					
			TOTAL	135.80	RM	47.00	6383.00	
224			SOR I.No 9.134.1 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.					
			1.5 mm thick.					
			TOTAL	35.64	sqm	851.00	30330.00	
225			SOR I.No 9.203 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					
			SOR I.No 9.203.3 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.					
			TOTAL	583.20	sqm	3005.00	1752516.00	
226			SOR I.No 9.129.1 Providing and fixing magnetic catcher in cupboard / ward robe shutters including fixing with necessary screws etc.					
			TOTAL	392.00	each	28.00	10976.00	
227			SOR Item No 9.65 Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:					
			SOR I.No 9.65.1 300x16 mm					
			TOTAL	108.00	each	389.00	42012.00	
228			SOR I.No 5.45 Providing and fixing Eco Friendly Teracotta jali size length 210 x width 210x thick 70 mm including m.s. frame, all joints, matching					
			TOTAL	46.08	sqm	1961.00	90363.00	

229			S.O.R.I.NO. 4.1.2.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All				
			TOTAL	326.11	CUM	3808.00	1241827.00
230			S.O.R.I.NO. 4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for : Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.				
			TOTAL	42.72	sqm	169.00	7220.00
231			SOR I.No 19.37 Providing & Fixing of Precast RCC drain cover of size 750x600 x70mm (thickness) with 6 holes, manufactured by using M-30 grade of concrete reinforced with 6mm dia Top Steel				
			TOTAL	450.00	each	550.00	247500.00
232			SOR I.No 19.38 Providing & Fixing of Precast RCC drain cover of size 900x450 x90mm (thickness) with 8 holes, manufactured by using M-30 grade of concrete reinforced with 6mm dia Top Steel				
			TOTAL	400.00	each	900.00	360000.00
233			SOR I.No 30.7 Providing and Installing bio digester unit based on DRDO technology made of				
			SOR I.No 30.7.12 UPTO 500 USER SIZE (6.0m X 2.0m X 1.67m) Capacity of bio-digester :- 20,000 liters Area of top, bottom and side walls:- 50.72 sq.m Area of partition walls:- 13.36 sq.m Total				
			TOTAL	1.00	each	1243438.00	1243438.00
234			SOR I.No 30.7.7 UPTO 100 USER SIZE (2.5m X 2.0m X 1.0m) Capacity of bio-digester :- 5000 liters Area of top, bottom and side walls:- 19.00				
			TOTAL	1.00	each	334491.00	334491.00
235			SOR I.No 30.7.10 UPTO 300 USER SIZE (4.8m X 2.0m X 1.25 m) Capacity of bio-digester :- 12000 liters Area of top, bottom and side walls:- 36.20 sq.m Area of partition walls:- 10.00 sq.m Total				
			TOTAL	1.00	each	792550.00	792550.00
236			Road SOR 3.3 Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 metres. Excavation for roadwork in soil with hydraulic excavator including cutting and loading				
			TOTAL	2580.00	cum	79.00	203820.00
237			Road SOR 3.13 Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material having				
			TOTAL	1900.00	cum	298.00	566200.00
238			Road SOR 4.1 Crusher Run Macadam Sub Base/Base Course Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a				
			TOTAL	330.00	cum	1114.00	367620.00
239			Road SOR 4.16 Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope &				
			TOTAL	375.00	cum	398.00	149250.00
240			Road SOR 6.1 Construction of Shoulders with approved material/selected soil i/c excavation all lifts & leads i/c grading to required slope &				
			TOTAL	150.00	cum	2712.00	406800.00
241			Road SOR 6.4 Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS:				
			TOTAL	337.50	cum	5532.00	1867050.00
242			Road SOR 6.8 Add extra in Item No.6.3, 6.4, 6.6 & 6.10 above for the cost of steel in dowel bar and tie rod including craddle, laps etc. complete required as per design.				
			Road SOR 6.8.1 Mild steel				
			TOTAL	0.00	mt	57734.00	0.00
243			Road SOR 6.8 Add extra in Item No.6.3, 6.4, 6.6 & 6.10 above for the cost of steel in dowel bar and tie rod including craddle, laps etc. complete required as per design.				
			Road SOR 6.8.2 Tor steel				
			TOTAL	2.75	mt	58734.00	161519.00
244			S.O.R.I.NO. 19.8.4 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				
			TOTAL	217.50	RM	480.00	104400.00
245			SOR I.No 28.1 Trenching in ordinary soil up to a depth of 60cm including removal and stacking of excavable materials and	94.50	cum	186.00	17577.00
246			SOR I.No 28.2 Supplying and stacking of good earth specific useful for plantation at site including royalty if any and carriage earth	189.00	cum	511.00	96579.00

247		SOR I.No 28.3 Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced by 8% for payment).Stack Size 1.50 x 1.50 x 0.50 = 1.25 Cum)	23.63	cum	643.00	15194.09	
248		SOR I.No 28.4 Supplying and stacking at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment) :	23.63	cum	734.00	17344.42	
249		SOR I.No 28.5 Rough dressing the trenched ground including breaking clods.	200.00	100 sqm	445.00	89000.00	
250		SOR I.No 28.6 Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	200.00	100 sqm	151.00	30200.00	
251		SOR I.No 28.7 Fine dressing of the ground	200.00	100 sqm	113.00	22600.00	
252		SOR I.No 28.8 Spreading of sludge, dump manure and / or good earth in required thickness as per direction of	200.00	cum	16.00	3200.00	
253		SOR I.No 28.9 Mixing earth and sludge or manure in the required proportion specified or directed by the Engineer-in-charge.	200.00	cum	11.00	2200.00	
254		SOR I.No 28.10 Grassing with Selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit					
		SOR I.No 28.10.1 In rows 15 cm apart in both directions.	100.00	100 sqm	1,163.00	116300.00	
255		SOR I.No 28.10.2 In rows 7.5 cm apart in both directions.	100.00	100 sqm	2,404.00	240400.00	
256		SOR I.No 28.10.3 In rows 5 cm apart in both directions.	100.00	100 sqm	3,601.00	360100.00	
257		SOR I.No 28.13 Preparation of beds for hedging and shrubbery by excavating further 30cm	100.00	cum	67.00	6700.00	
258		SOR I.No 28.15 Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture					
		SOR I>no 28.15.1 Bahunia Tomentosa, Beloperone Species, Caselpinnia Pulcherima, Bird of Paradise, Callandra Emarginata, Callandra Hybrida, Cassia Bi flora, Cassia	10.00	sqm	80.00	800.00	
259		SOR I.No 28.15.2 Allamanda Cathartica, Allamanda Grandiflora, Allamanda Violacea, Begonia Venustha, Boughan Villas (Variety : Butiana, Lady Mary Bearing, Mahaara, Mohan, Scarlet Queen Variagata, Glabra Formosa, Peruviana Odissi, Partha, Shubhra,	20.00	each	50.00	1000.00	
260		SOR I.No 28.15.3 Alpinia Verigated, Alternanthera species, Aspyragus Myerri, Aspyragus Springenii, Aspidistra, Canna (regular, Dwarf), Chlorodendron Inermii, Chlorophytum (Green).	20.00	each	50.00	1000.00	
261		SOR I.No 28.15.4 Any of one from Alyssum, Anemone, Antirrhinium Hybrid, Aster Hybrid, Begonia and its different varieties, Calendula, Carnation, Coleus, Daisv, Dianthus, Fressia, Gazania, Impatiens,	10.00	each	42.00	420.00	
262		SOR I.No 28.15.5 Any of one from Celosia, Caladium Hybrid, Cockscomb, Cosmos, Gaillardia, Gomphorena, Kochchea, Portulacca, Sunflower Hybrid, Sunflower Single, Tapiocca Variegated (Manihot Esculenta), Vinca, Zinnia Hybrids.	20.00	each	42.00	840.00	
263		SOR I.No 28.15.6 Budded Roses of H.T variety and miniature Roses.	20.00	each	170.00	3400.00	
264		SOR I.NO 28.15.7 Plant Creeper Rose Varieties	20.00	each	212.00	4240.00	
265		SOR I.NO 28.15.8 Standard Roses H.T. Variety	20.00	each	382.00	7640.00	
266		SOR I.No 28.16 Half brick circular tree guard in bricks, internal diametre 1.25 metre and height 1.2 metre above ground and 0.20 m below ground bottom two courses laid dry	150.00	each	800.00	120000.00	
267		SOR I.No 28.17 Edging with bricks laid dry length wise, including required excavation, refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50 m:					
		SOR I.NO 28.17.2 Fly ash bricks	200.00	metre	34.00	6800.00	

268			SOR I.No 28.22 Providing and fixing M. S. tree guard 50 cm square in plan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos. of angle iron of size 25x25x5 mm 1.9 long, one at Each	200.00	each	2,245.00	449000.00	
269			SOR I.No 28.23 Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, including slope	50.00	cum	138.00	6900.00	
270			SOR I.No 28.25 Providing Square Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:2:4 (1	100.00	each	165.00	16500.00	
271			SOR I.No 28.27 Providing of rotomoulded planters of square shape of different sizes.					
			SOR I.No 28.27.1 40cm x 40 cm x 37cm	20.00	each	1,260.00	25200.00	
272			SOR I.No 28.27.2 50cm x 50cm x 45cm	20.00	each	2,700.00	54000.00	
273			SOR I.No 28.32 Anti Termite treatment of Lawn area through premise 30.5%LP, one liter premise diluted in 499 litres water and applying solution	1500.00	sqm	10.00	15000.00	
274			SOR I.No 28.35 Providing and fixing of 3 seater stone bench made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather	12.00	each	9,700.00	116400.00	
275			SOR I.No 28.37 Providing and fixing of stone table made of 75mm thick stone slab finished by different numbers of ambry stone and two coats of 124 no sealer coat to prevent from weather including fixing	12.00	each	7,900.00	94800.00	
276			SOR I.No 18.5 Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes U V stabilized and anti - microbial fusion welded, having thermal stability for hot and cold water supply including all PP - R plain and brass threaded polypropylene random					
			SOR I.No 18.5.3 PN - 16 Pipe, 25 mm OD (SDR 7.4)	300.00	metre	178.00	53400.00	
277			SOR I.No 18.5.4 PN - 16 Pipe, 32 mm OD (SDR 7.4)	200.00	metre	268.00	53600.00	
278			SOR I.No 18.15 Providing and fixing gun metal non- return valve of approved quality (screwed end):					
			32 mm nominal bore					
279			SOR I.No 18.15.2.1 Horizontal	5.00	each	587.00	2935.00	
280			SOR I.No 18.44 Providing and fixing PTMT bib cock of approved quality and colour 15mm nominal bore.					
281			SOR I.No 18.44.2 122 mm long weighing not less than 99 gm	5.00	each	208.00	1040.00	
282			SOR I.No 5.9.5 Lintels, beams, girders, bressumers and cantilevers					
			TOTAL	103.76	SQM.	356.00	36939.00	
283			SOR I.No 5.9.3 Suspended floors, roofs, landings, balconies and access platform					
			TOTAL	47.74	SQM.	439.60	20987.00	
284			SOR I.No 9.46.2 Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with					
			TOTAL	4.88	SQM.	681.00	3323.00	
285			SOR I.No 21.19 Providing and fixing 50 micron thick reflective one way type heat /light control film to window/door glazing with complete					
			TOTAL	1.92	SQM.	448.00	860.00	
286			SOR I.No 9.43.2 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc.					
			TOTAL	98.40	kg	128.00	12595.00	
287			SOR I.No 10.12.2.1 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					
			TOTAL	5.50	RM	431.00	2371.00	
289			SOR I.No 10.17 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					
			TOTAL	2.00	each	148.00	296.00	

290			SOR I.No 13.27.2 Providing and fixing fibre mesh of 145 GSM weight in required width with cement mortar before plastering upto 10m height.					
			TOTAL	30.00	sqm	45.00	1350.00	
291			SOR I.No 13.2.2 15 mm cement plaster on the rough side of single or half brick wall of mix					
			TOTAL	126.60	sqm	168.00	21269.00	
292			SOR I.No 13.4.2 1 12 mm cement plaster finished with a floating coat of neat cement of mix :					
			TOTAL	6.90	sqm	203.00	1401.00	
293			SOR I.No 13.47.2 Distempering by any mechanical or manual means with 1st quality acrylic distemper, having					
			TOTAL	194.62	sqm	32.00	6228.00	
294			SOR I.No 13.53 Finishing walls by any mechanical or manual means with Premium Acrylic Smooth exterior paint					
			TOTAL	83.40	sqm	130.00	10842.00	
295			SOR I.No 12.32.1 Providing and fixing on wall face Rigid Unplasticised rigid PVC (upvc) Single socketed rain water pipes					
			TOTAL	70.00	RM	136.00	9520.00	
296			SOR I.No 12.32.2 Providing and fixing on wall face Rigid Unplasticised rigid PVC (upvc) Single socketed rain water pipes					
			TOTAL	255.00	RM	238.00	60690.00	
297			SOR I.No 12.33.1.1 Coupler 12.33.1.1 75 mm 75 mm (minimum wall thickness 1.8m)					
			TOTAL	14.00	each	67.00	938.00	
298			SOR I.No 12.33.1.2 110 mm (minimum wall thickness 2.2mm)					
			TOTAL	9.00	each	102.00	918.00	
299			SOR I.No 12.33.3.1 Single tee with door 12.33.3.1 75 mm 75x75x75 mm (minimum wall thickness 1.8mm)					
			TOTAL	14.00	each	106.00	1484.00	
300			SOR I.No 12.33.3.2 110x110x110 mm (minimum wall thickness 2.2mm)					
			TOTAL	17.00	each	176.00	2992.00	
301			SOR I.No 12.33.5.1 Bend 87.5° 12.33.5.1 75 mm 75 mm bend (minimum wall thickness 1.8mm)					
			TOTAL	14.00	each	78.00	1092.00	
302			SOR I.No 12.33.5.2 110 mm bend (minimum wall thickness 2.2mm)					
			TOTAL	17.00	each	112.00	1904.00	
303			SOR I.No 12.34.1 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs,					
			TOTAL	28.00	each	97.00	2716.00	
304			SOR I.No 12.34.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised - PVC rain water pipes by					
			TOTAL	136.00	each	114.00	15504.00	
305			SOR I.No 17.58.2 Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring					
			TOTAL	200.00	RM	238.00	47600.00	
306			SOR I.No 19.29.2 Constructing brick masonry road gully chamber 110x50x77.5cm with bricks in cement mortar 1:4 (1					
			TOTAL	34.00	each	6485.00	220490.00	
307			SOR I.No 16.11.1 Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard					

			TOTAL	12.00	RM	236.00	2832.00	
308			SOR I.No 16.11.2 Beyond 6 m and upto 12 m depth.					
			TOTAL	8.00	RM	280.00	2240.00	
309			SOR I.No 16.12 Providing and placing in position filters to 40 mm diameter G.I. pipe with brass strainer of					
			TOTAL	2.00	RM	545.00	1090.00	
310			SOR I.No 16.13 Providing and fixing to filter and lowering to proper levels 40					
			TOTAL	20.00	RM	386.00	7720.00	
311			SOR I.No 16.14 Providing and placing in position hand pump of					
			TOTAL	2.00	cum	841.00	1682.00	
312			SOR I.No 16.15 Supplying, filling, spreading and leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the					
			TOTAL	1.00	cum	760.00	760.00	
313			SOR I.No 16.21.1 Rain water filter made out of ABS plastics material, designed to operate on gravity of					
			TOTAL	2.00	each	5900.00	11800.00	
314			SOR I.No 16.21.2 System size 110mm diameter (filterain, tee, door bend, and valve 110mm) For the catchment up to 200 square meter.					
			TOTAL	4.00	each	7750.00	31000.00	
315			SOR I.No 16.22.2 Borewell adaptor for connecting Rain Water Harvesting pipe line to borewell. 16.22.2 110 mm dia Borewell adaptor 110m					
			TOTAL	2.00	each	300.00	600.00	
316			SOR I.No 2.7.1 Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width					
			TOTAL	14.24	cum	287.00	4087.00	
317			SOR I.No 9.169.1 Providing and fixing factory made single extruded WPC(Wood Polymer Composite) solid door/window/ceosetory windows and other frames/chowkhat comprising of virgin polymer					
			TOTAL	5.00	RM	459.00	2295.00	
318			SOR I.No 17.27 Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm					
			TOTAL	1.00	each	2243.00	2243.00	
319			SOR I.No 17.32.2.1 Providing and fixing soil, waste and vent pipes: 17.32.2 CI (Spun cast) Spun					
			TOTAL	5.00	RM	840.00	4200.00	
320			SOR I.No 17.32.2.2 17.32.2.2 100 mm dia 100 mm dia with wall thickness of 4 mm					
			TOTAL	5.00	RM	1020.00	5100.00	
321			SOR I.No 17.35.2.2 Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm					
			TOTAL	1.00	each	408.00	408.00	
322			SOR I.No 17.35.3.2 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					
			TOTAL	1.00	each	341.00	341.00	
323			SOR I.No 17.36.1.2 mm each 1 341.00 341.00 72 17.36 C.I. Bend (Plain) Providing and fixing plain bend of required degree.					
			TOTAL	1.00	each	825.00	825.00	
324			SOR I.No 17.36.3.2 75 mm dia 17.36.3.2 Spun cast Spun cast iron as per IS - 3989 minimum wall thickness 3.5 mm					

			TOTAL	1.00	each	259.00	259.00	
325		SOR I.No 17.57.2.2 100 mm inlet and 75 mm outlet 17.57.2.2 Spun cast Spun Cast iron S & S as per IS- 1729.						
			TOTAL	1.00	each	540.00	540.00	
326		SOR I.No 17.64.2.1 Providing and fixing P.V.C. waste pipe for sink or wash basin						
			TOTAL	1.00	each	87.00	87.00	
327		SOR I.No 17.65 Providing and fixing 100 mm sand cast Iron grating for gully trap.						
			TOTAL	1.00	each	43.00	43.00	
328		SOR I.No 17.66 Providing and fixing in position 25mm diameter						
			TOTAL	1.00	each	44.00	44.00	
329		SOR I.No 17.81 Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from						
			TOTAL	1.00	each	217.00	217.00	
330		SOR I.No 17.83.1 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with						
			TOTAL	1.00	each	412.00	412.00	
331		SOR I.No 17.84 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.						
			TOTAL	1.00	each	511.00	511.00	
332		SOR I.No 17.91.2 Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two						
			TOTAL	5.00	RM	29.00	145.00	
333		SOR I.No 18.6.2.3 25 mm nominal outer dia .Pipes.						
			TOTAL	5.00	RM	288.00	1440.00	
334		SOR I.No 18.7.3 Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass						
			TOTAL	334.44	RM	185.00	61871.00	
335		SOR I.No 18.7.5 40 mm nominal outer dia .Pipes						
			TOTAL	5.00	RM	324.00	1620.00	
336		SOR I.No 18.12.2.1 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
			TOTAL	1.00	RM	341.00	341.00	
337		SOR I.No 18.12.2.2 32 mm nominal bore						
			TOTAL	1.00	RM	419.00	419.00	
338		SOR I.No 18.12.2.3 40 mm nominal bore						
			TOTAL	1.00	RM	491.00	491.00	
339		SOR I.No 18.14.2 Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore						
			TOTAL	1.00	each	431.00	431.00	
340		SOR I.No 18.14.3 25 mm nominal bore						
			TOTAL	1.00	each	499.00	499.00	
341		SOR I.No 18.15.1.1 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						
			TOTAL	1.00	each	462.00	462.00	
342		SOR I.No 18.15.1.2 Vertical						
			TOTAL	1.00	each	474.00	474.00	
343		SOR I.No 18.15.3.1 40 mm nominal bore 18.15.3.1 Horizontal Horizontal						
			TOTAL	1.00	each	746.00	746.00	
344		SOR I.No 18.15.3.2 Vertical						
			TOTAL	1.00	each	990.00	990.00	
345		SOR I.No 18.17.2.1 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						
			TOTAL	1.00	each	149.00	149.00	
346		SOR I.No 18.56 Cutting holes upto 30x30 cm in walls including making good the same : With common burnt clay bricks of						
			TOTAL	2.00	each	154.00	308.00	

347			SOR I.No 19.7.1.2 Providing and fixing square- mouth S.W. gully trap class SP1 complete with C.I. grating brick					
			TOTAL	1.00	each	1668.00	1668.00	
348			SOR I.No 19.7.2.2 150 x 100 mm size P type. 19.7.2.2 Sewer bricks With sewer bricks conforming to IS : 4885					
			TOTAL	1.00	each	1707.00	1707.00	
349			SOR I.No 26.2 Providing laying, testing and commissioning of 'C' class heavy duty MS pipe confirming to IS 1239/3589 i/c fittings like					
			SOR I.No 26.2.2 100 mm dia					
			TOTAL	189.00	RM	2203.00	416367.00	
350			S.O.R.I.NO.26.3.1 Providing and fixing single headed hydrant valve with instantaneous female Gun metal couplings of required dia with					
			S.O.R.I.NO.26.3.1 63mm dia					
			TOTAL	9.00	each	6700.00	60300.00	
351			S.O.R.I.NO.26.10 Providing, installation, testing and commissioning of gun metal valves of following sizes as required.					
			S.O.R.I.NO.26.10 .1 100mm dia					
			TOTAL	9.00	each	3240.00	29160.00	
352			S.O.R.I.NO.26.11 Supplying and fixing dia,15m long, RRL hose pipe with following diamale and female gun metal couplings duly binded with GI wire, rivets etc. confirming to IS 636 (type-A) as required.					
			S.O.R.I.NO.26.11.1 70mm dia					
			TOTAL	9.00	each	6100.00	54900.00	
353			S.O.R.I.NO.26.12 Providing and fixing first -Aid hosereel with MS construction spray painted in post office red, confirming to IS 884 with up to date amendments, complete with the following as required.) (a) 30-36m long					
			TOTAL	20.00	each	6065.00	121300.00	
354			S.O.R.I.NO.26.13 Providing and fixing hose cabinet of size 900x600x500mm made of 2 mm thick MS sheet with 4 mm thick float glass doors in front painted "FIRE" in red paint i/c necessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 nos. 15m Long hose pipe, 1 no branch pipe					
			TOTAL	9.00	each	8570.00	77130.00	
355			S.O.R.I.NO.26.27 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					
			S.O.R.I.NO.26.27.3 Capacity 4.5 kg					
			TOTAL	52.00	each	11351.00	590252.00	
356			S.O.R.I.NO.26.28 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					
			S.O.R.I.NO.26.28.5 Capacity 9.0 kg					
			TOTAL	52.00	each	5493.00	285636.00	
357			SOR Item No 12.17.1 Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm					
			TOTAL	104.64	sqm	1031.00	107884.00	
358			S.O.R.I.NO. 25.1.1 Providing and fixing white vitreous china Anti germ Fluoro-Polymer Coated Water closet squatting pan with 100 mm sand					
			TOTAL	32.00	each	4726.00	151232.00	
359			S.O.R.I.NO. 25.2.2 Providing and fixing white vitreous china pedestal type Anti germ Fluoro-Polymer Coated Water Closet with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propeline) made 80 mm thick concealed flushing cistern. flushing capacity 3					
			TOTAL	29.00	each	8742.00	253518.00	
360			S.O.R.I.NO. 25.7 Providing and fixing white vitreous china type Anti germ Fluoro-Polymer Coated Wash Basin with C.I. Brackets 15 mm C					

			S.O.R.I.NO. 25.7.1 White Vetroious China Anti germ Fluoro-Polymer Coated Wash Basin Size 160x580x450 mm with basin mounted					
			TOTAL	52.00	each	16581.00	862212.00	
361			S.O.R.I.NO. 25.53 Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Soap Dish Holder. (Premium Range)					
			TOTAL	63.00	each	1191.00	75033.00	
362			S.O.R.I.NO. 25.50 Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Single Towel Rail 600 mm long. (Premium Range)					
			TOTAL	64.00	each	2631.00	168384.00	
363			SOR I.No 25.19 Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm andmin. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn)Bib cock. (Premium Range)					
			TOTAL	136.00	each	2071.00	281656.00	
364			SOR I.No 25.21 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) Concealed stop cock. (Premium Range)					
			TOTAL	183.00	each	2015.00	368745.00	
365			SOR I.No 25.18 Providing and fixing in position best Indian (bonut size 24mm, ceramic disc size 19mm andmin. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn) Pillar cock. (Premium Range)					
			TOTAL	77.00	each	2326.00	179102.00	
366			SOR I.No 17.99 Construction of manually operated fire based incinerator for girls-toileti/c (i) Fire and ash collection chamber 0.60x0.60 m, made of calcium silicate bricks, having 12mm dia steel bars grating @10 cm c/c, i/c MS mesh weldedon top including 300 mm x 450 mm MS openable door of half grill					
			SOR I.No 17.99.2 For Ground floor & 1st floor buildings.					
			TOTAL	4.00	each	32115.00	128460.00	
367			SOR I.No 17.99.3 Add extra for every additional floor above 1st floor.					
			TOTAL	2.00	each	8552.00	17104.00	
368			SOR I.No 9.174 Providing and fixing factory made 18 mm thick single extruded WPC (Wood Plastic Composite) for wall cladding					
			TOTAL	92.88	sqm	2700.00	250776.00	
369			SOR I.No 27.7 Providing and fixing Aluminum sqm 6180.00 computerized composite panels Silver colour with writing on ACP matte finish, 2mm thick (0.25mm 2.5mm fixing with stud and nut)					
			TOTAL	12.20	sqm	6180.00	75396.00	
370			SOR I.No 9.41.3 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:25 mm dia.					
			TOTAL	373.85	RM	382.00	142811.00	
371			SOR I.No 12.65 Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS-3087 finished					
			TOTAL	73.92	SQM	667.00	49305.00	
372			SOR I.No 13.37.3 Providing and fixing writing board green writing with chalk (regular modified polyester coated steel surface). of sizes.size 1200mmx3000mm					
			TOTAL	19.00	each	12126.00	230394.00	
373			SOR I.No 13.37.2 Providing and fixing writing board green writing with chalk (regular modified polyester coated steel surface). of sizes.size 1200mmx2400mm					
			TOTAL	10.00	each	9730.00	97300.00	
374			SOR I.NO 6.27 Extra for AAC masonry work in superstructure above floor two level for each additional floor or part thereof					
			TOTAL	566.75	CUM	55.00	31171.00	
			TOTAL	368.15	CUM	110.00	40497.00	
			TOTAL	53.91	CUM	165.00	8895.00	

375			S.O.R.I.NO. 25.52 Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Single Towel Ring Square. (Premium Range)				
			TOTAL	29.00	each	2167.00	62843.00
376			S.O.R.I.NO. 25.54 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. (Premium Range)				
			TOTAL	29.00	each	3653.00	105937.00
377			SOR I.No 25.65 Providing and fixing in position best Indian, quarter turn table mounted sink mixer (bonut size 24mm, ceramic disc size 19mm and min. nickel plating 0.10 micron and chrome plating 0.3 micron). (Premium Range)				
			TOTAL	5.00	each	4264.00	21320.00
378			SOR I.No 25.63.1 Wall Hung Basin: Providing and fixing white vitreous china type Anti germ fluoropolymer coated wall mounted wash basin with C.I. brackets, C. P. brass single lever basin mixer, 15mm quarter turn angular stop cock, 32 mm C.P. brass waste coupling length 130mm and 32 mm C.P. brass bottle trap size 200x300mm i/c cutting				
			TOTAL	2.00	each	14729.00	29458.00
379			SOR I.No 25.20 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. (Premium Range)				
			TOTAL	58.00	each	1563.00	90654.00
380			SOR I.No 25.57 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)				
			TOTAL	13.00	each	1354.00	17602.00
381			SOR I.No 25.80 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)				
			TOTAL	2.00	each	9504.00	19008.00
382			SOR I.No 25.27 Providing and fixing in position best Indian single Lever Auto Mixing Diverter (Cartridge Size 47mm, nickel plating 0.10 micron and chrome plating 0.3 micron) for Shower area use only. (Premium Range)				
			TOTAL	29.00	each	7039.00	204131.00
383			SOR I.No 25.31 Providing and fixing in position best Indian C. P. brass made Shower Arm Length 600mm (nickel plating 0.10 micron and chrome plating 0.3micron) .(Premium Range Sanitary Ware)				
			TOTAL	29.00	each	1502.00	43558.00
384			SOR I.No 25.34 Providing and fixing in position best Indian shower rose 200mm dia body and face chrome plated, brass made body, Silicon based Rubbit cleaning nozzles .(Premium Range)				
			TOTAL	29.00	each	4987.00	144623.00
385			SOR I.No 25.46 Providing and fixing in position best Indian C. P. Brass made (0.3 micron Chrome and 10 micron Nickel plated) Towel Rake 600 mm. (Premium Range)				
			TOTAL	29.00	each	9734.00	282286.00
386			SOR I.No 27.4 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.				
			TOTAL	2.40	sqm	13652.00	32765.00
387			SOR I.No 27.5 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				
			TOTAL	1.50	sqm	11926.00	17889.00
388			SOR I.No 27.6 Providing and fixing Aluminum composite panels Silver colour with matte finish, 3mm thick, (0.25mm 2.5mm and 0.25mm) sheet				
			TOTAL	0.64	sqm	7287.00	4664.00

389			SOR I.No 27.12 Providing and fixing acrylic multilingual Braille (raised dots) directional signboards of size 6" x9 " as per accessibility standards and having 3mm thick acrylic base plate with Upper Case San Serif words white acrylic non glare cut out letters of height 15mm				
			TOTAL	2.00	each	1736.00	3472.00
390			SOR I.No 27.15 Providing and fixing tactile of Photoluminescent Emergency evacuation map in Braille for each floor indicating the current position of the viewer saying "YOU ARE HERE" in Braille indicating the emergency exits, locations of fire extinguishers etc. The size of the board shall be 600 x 900mm. With 5 year replacement warranty and shall be installed at a height of 1200mm from FFL and shall be oriented to the				
			TOTAL	1.00	each	25521.00	25521.00
391			SOR Item No 12.16.1 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm + 0.05 % total coated thickness, Zinc coating 120gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxv primer				
			TOTAL	40.80	RM	320.00	13056.00
392			SOR Item No 12.16.6 Gutter. (600 mm over all girth)				
			TOTAL	40.80	RM	781.00	31865.00
393			S.O.R.I.NO.12.38.11 Providing and fixing advanced type hurricane turbo ventilator to self-supporting roof having neck dia 600mm made of aluminum having 24 nos vertical vanes made of aluminum sheet. Ventilator should be fixed on 1 to 2mm thick G.I. ring which shall be fixed on				
			TOTAL	12.00	each	9196.00	110352.00
394			SOR I.No 9.94 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc.				
			TOTAL	15.00	each	780.00	11700.00
395			SOR Item No 19.22 Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5kg.				
			TOTAL	8.00	each	274.00	2192.00
396			SOR 18.8.3 Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. External work : including trenching and refilling etc				
			SOR I.No 18.8.3.3 25 mm nominal outer dia				
			TOTAL	839.44	RM	263.00	220773.00
			TOTAL CIVIL WORK AMOUNT		(A)		286407409.00
Electrical Detail							
4.1		Point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable 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 :-				
	4.1.1	Light/Fan points primary	Light Point/Fan Points.				
	4.1.1.1	Short	Primary Short point	451.00	Each	151	68101.00
	4.1.1.2	Medium	Primary Medium point	830.00	Each	539	446955.00
	4.1.1.3	Long	Primary Long point	1300.00	Each	1295	1683500.00
	4.1.2	Looping point secondary	(Light point/fan points) looping point				
	4.1.2.1	Short	Secondary Short point	226.00	Each	81	18306.00
	4.1.2.2	Medium	Secondary Medium point	415.00	Each	91	37765.00
	4.1.2.3	Long	Secondary Long point	650.00	Each	101	65650.00
4.1.3		Socket 6A sep. board	3 Pin 6 Amp socket outlet on separate board				
	4.1.3.1	Short point	Short point	574	Each	10	5740.00
	4.1.3.2	Medium	Medium point	990	Each	127.5	126225.00
	4.1.3.3	Long	Long point	1515	Each	410.5	621908.00
	4.1.4	Call bell point	Call bell/buzzer points				
	4.1.4.2	Medium	Medium point	797	Each	2.0	1594.00
	4.1.4.3	Long	Long point	1183.00	Each	25	29575.00
	4.1.5	Twin control	Twin control light points				
	4.1.5.2	Medium	Medium point	948.00	Each	2	1896.00

	4.1.5.3	Long	Long point	1453.00	Each	13	18889.00
4.2		Socket same board 6A	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable 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.	265.00	Each	298	78970.00
4.3		Circuit wiring 2.5Sq. Mm	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				
	4.3.1	2 Wire	2x2.5 Sq.mm.	139.00	Metre	2630	365570.00
	4.3.2	4 Wire	4x2.5 Sq.mm.	224.00	Metre	2080	465920.00
	4.3.3	6 Wire	6x2.5 Sq.mm.	288.00	Metre	1605	462240.00
	4.3.4	8 Wire	8x2.5 Sq.mm.	353.00	Metre	730	257690.00
	9.1	Power point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable 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				
	9.1.1	Power point	On Separate Board				
	9.1.1.1	Short	Short point	985.00	Each	1	985.00
	9.1.1.2	Medium	Medium Point	1749.00	Each	8	13992.00
	9.1.1.3	Long	Long Point	2612.00	Each	8	20896.00
	9.1.1.4	Extra Long -I	Extra Long -I	3648.00	Each	25.5	93024.00
	9.1.1.5	Extra Long -II	Extra Long -II	4771.00	Each	30.5	145516.00
	9.1.1.6	Extra Long -III	Extra Long -III	5986.00	Each	49	290321.00
	9.2	Same board	Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	437.00	Each	3	1311.00
	16.1	Concealed PVC conduit HMS	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1.1	20 mm HMS	PVC . Conduit 20 mm (HMS)	61.00	Metre	775	47275.00
	16.1.2	25 mm HMS	PVC . Conduit 25 mm (HMS)	74.00	Metre	535	39590.00
	16.1.3	32 mm HMS	PVC . Conduit 32 mm (HMS)	115.00	Metre	275	31625.00
18.2		Modular G.I. metal box (concealed)	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-				
	18.2.1	G.I box 1 Or 2 module	1 Or 2 Module metal box	182.00	Each	138	25116.00
	18.2.2	G.I box 3 module	3 Module metal box	216.00	Each	761	164376.00
	18.2.3	G.I box 4 module	4 Module metal box	244.00	Each	40	9760.00
	18.2.4	G.I box 6 module	6 Module metal box	309.00	Each	198	61182.00
	18.2.5	G.I box 8/9 module	8/9 Module metal box	373.00	Each	144	53712.00
	18.2.6	G.I box 12 module	12 Module metal box	502.00	Each	368	184736.00
	18.2.7	G.I box 16 module	16 Module metal box	585.00	Each	2	1170.00
	18.2.8	G.I box 18 module	18 Module metal box	642.00	Each	2	1284.00
19.1		Single core PVC insulated FRLS cable	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in exist in rigid PVC casing and capping/conduit in surface or concealed as per specification.				
	19.1.1	1.5 sqmm	1.5 sq. mm. wire				
	19.1.1.1		1 X 1.5 sq. mm.	19.00	Mtr	200	3800.00
	19.1.1.2		2 X 1.5 sq. mm.	38.00	Mtr	50	1900.00
	19.1.1.3		3 X 1.5 sq. mm.	56.00	Mtr	475	26600.00
	19.1.2	2.5 sqmm	2.5 sq. mm. wire				
	19.1.2.1		1 X 2.5 sq. mm.	30.00	Mtr	5485	164550.00
	19.1.3	4.00 sq. mm.	4.00 sq mm wire				
	19.1.3.3	3 wire	3 X 4.00 sq mm	134.00	Mtr	1030	138020.00
		6.00 sq mm	6.00 sq. mm wire				
	19.1.4.3	3 wire	3 X 6.00 sq mm	202.00	Mtr	550	111100.00
	19.1.4.5	5 wire	5 X 6.00 sq mm	336.00	Mtr	300	100800.00

23.1		Sub mains in recessed/conc ealed rigid PVC conduit (HMS)	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				
	23.1.2	3 Wire sub main	3 Wire sub main				
	23.1.2.3	6.0 sq. mm. cable	6.0 sq. mm. cable	321.00	Mtr	30	9630.00
	44930	4 Wire	4 WIRE SUB-MAIN				
	23.1.4.3	6.0 sq mm cable	6.0 sq mm cable	398.00	Mtr	510	202980.00
	23.1.4.4	10.0 sq mm cable	10.0 sq mm cable	601.00	Mtr	845	507845.00
	23.1.4.5	16.0 sq mm cable	16.0 sq mm cable	873.00	Mtr	30	26190.00
27.1		MCCB 3Ph, 3 Pole, 50Hz, 415V	Supply of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828				
	27.1.1	MCCB up to 63A,10kA, 3P	MCCB current rating - upto 63 Amp, 10kA, 3P 415V AC	2721.00	Each	20	54420.00
	27.1.2	MCCB 80 to 100A,10kA, 3P	MCCB current rating -80 to 100Amp, 10kA, 3P 415V AC	3256.00	Each	21	68376.00
	27.1.3	MCCB 25 to 100A,25kA, 3P	MCCB 25kA current rating, 3P -25 to 100Amp & 80% - 100% adjustable	7369.00	Each	1	7369.00
	27.1.4		MCCB 25kA current rating, 3P -125Amp & 80% - 100% adjustable	9953.00	Each	3	29859.00
	27.2		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				
	27.2.1		MCCB 25kA current rating - 63 to 100Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	7538.00	Each	18	135684.00
	27.2.2		MCCB 25kA current rating - 125Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	10160.00	Each	4	40640.00
	27.2.3		MCCB 25kA current rating - 160Amp & adjustable overload setting 80% -100% of In, adjustable short circuit setting 6-10 In 3 Pole	13327.00	Each	1	13327.00
27.8		MCB 'C' Series, 240/415V, 50 Cycle, 10kA/15kA	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts,50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 :2002 & 60947-2 but without enclosures:-				
	27.8.1	Single pole	SINGLE POLE				
	27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	263.00	Each	595	156485.00
	27.8.2	Double pole	Double pole				
	27.8.2.2		MCB DP 6Amp to 32Amp 10kA rating	887.00	Each	2	1774.00
	27.8.2.3		MCB DP For 40Amp 10kA rating	1329.00	Each	8	10632.00
	27.8.3	Triple pole	For Triple pole				
	27.8.3.2	MCB TP 6A, 10kA	MCB TP 6Amp to 32Amp 10kA rating	1411.00	Each	2	2822.00
	27.8.3.3	MCB TP 40A, 10kA	MCB TP For 40Amp 10kA rating	2099.00	Each	26	54574.00
	27.8.3.4	MCB TP 50A, 10kA	MCB TP 50Amp to 63Amp 10kA rating	2157.00	Each	26	56082.00
	27.8.4		Four pole				
	27.8.4.3		MCB FP For 40Amp 10kA rating	2714.00	Each	4	10856.00
	27.8.4.4		MCB FP 50Amp to 63 Amp 10kA rating	2795.00	Each	17	47515.00
	27.11		Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-				
	27.11.3		4 Way double door IP 43 protection	1699.00	Each	3	5097.00
	27.11.5		8 Way double door IP 43 protection	2127.00	Each	5	10635.00
	27.11.6		12 Way double door IP 43 protection	2738.00	Each	1	2738.00
	27.10		Supplying of MCB Isolators suitable for 240/415 Volts, 50 Hz AC supply with kA value rating 10 kA of approved make conforming to IS:13947-Part III :1993 & IEC:60947- 3:2001 (without enclosures) :-				
	27.10.2		Double pole				
	27.10.2.1		Current rating upto 40Amp	575.00	Each	5	2875.00
			Four pole				
	27.10.4.2		Current rating upto 63Amp	1398.00	Each	12	16776.00

27.12		TPN MCB DB double door	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminal setc. complete as per IS:13032(exclusive of MCB & isolator):				
	27.12.1	4 Way (4+12)	4 Way (4+12)	5126.00	Each	18	92268.00
	27.12.2	4 Way (8+12)	4 Way (8+12)	4444.00	Each	13	57772.00
	27.12.3		6 Way (8+18)	5526.00	Each	0	0.00
	27.12.4		8 Way (8+24)	6712.00	Each	6	40272.00
27.14		Vertical TPN MCB DB, with provision for MCCB upto 160A TP/FP 36kA, double door	Supplying of approved make, powder coated metal double door vertical TPN MCB DB IP 43 protection with provision for MCCB upto 160A TP/FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB/MCBs) inclusive of busbar & connection setc				
	27.14.1		4 Way without MCCB	13822.00	Each	4	55288.00
	27.14.2		6 Way without MCCB	15671.00	Each	1	15671.00
	27.14.3	8 Way without MCCB	8 Way without MCCB	15989.00	Each	6	95934.00
	27.21		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.				
	27.21.1		DP (4 module)				
	27.21.1.1		2 pole 6Amp to 25Amp, 30 mA sensitivity	4491.00	Each	2	8982.00
	27.21.2		FP (8module)				
	27.21.2.4		4 pole 63Amp, 30mA sensitivity	7908.00	Each	6	47448.00
	27.18		Supplying & fixing of approved make Industrial type metal plug & socket DBs(without MCB) SPN sheet encloser (dust protected) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required.				
	27.18.2		20 Amp	1095.00	Each	7	7665.00
28.4		Fixing of MCB/MCCB /Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				
	28.4.1	MCB/Isolator SP/DP	MCB/Isolator SP/DP	22.00	Each	605	13310.00
	28.4.2	MCB/MCCB Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	28.00	Each	151	4228.00
28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCB DB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-				
		For item	For item no :-				
	28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	268.00	Each	31	8308.00
	28.8.2	Item SOR no.	27.12.4 & 27.12.5 ; 27.13.2 to 27.13.4 ; 27.14.1 to 27.14.4 & 27.15.1 to 27.15.4	297.00	Each	14	4158.00
29.3		Call bell	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.				
	29.3.2		Buzzer	82.00	Each	2	164.00
	29.3.3	Ding Dong bell	Ding Dong bell	185.00	Each	23	4255.00
29.7	29.7		Supply and fixing in position LED lamp of approved make				
	29.7.3		5 WATT 250 volt	98.00	Each	50	4900.00
	29.7.5		9 WATT 250 volt	110.00	Each	80	8800.00
	29.7.7		15 WATT 250 volt	223.00	Each	424	94552.00
	29.7.8		18 WATT 250 volt	303.00	Each	100	30300.00
29.25		Modular electronic fan regulator	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board				
	29.25.2	2 module	100 Watt(2 module)	484.00	Each	580	280720.00

30.1		Electric ceiling fan	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS : 374/2019 with upto date amendments.				
	30.1.1	900 mm	Ceiling fan - 900 mm sweep	1898.00	Each	13	24674.00
	30.1.2	1200 mm sweep	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..	2292.00	Each	532	1219344.00
	30.1.3	1400 mm sweep	Ceiling Fan (ISI marked)-1400 mm Sweep, minimum air delivery 245 m ³ /min and service value ≥ 4.10 as per BEE.	2540.00	Each	35	88900.00
30.2		Wall mounting fan	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				
	30.2.1	400 mm	300 mm sweep	2478.00	Each	1	2478.00
	30.2.2	400 mm	400 mm sweep	2810.00	Each	2	5620.00
30.4			Supplying, erection and testing of approved make 'Fresh air fan' AC 230-250 volts with connection and including frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.4.3		300 mm sweep bush type	1698.00	Each	3	5094.00
30.5		Deluxe fresh air fan	Supplying and fixing of deluxe fresh air fan with louvers (ventilating fan) with self-closing louvers of decorative PVC blades mountings square frame of approved make complete with all necessary material as required				
	30.5.4	300 mm	300mm RPM 1300/1400	2004.00	Each	21	42084.00
30.6		Exhaust fan heavy duty	Supplying, erecting and testing of approved make exhaust fan heavy duty with mountin frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
	30.6.1	300 mm	300mm sweep RPM 900 /1400	2571.00	Each	42	107982.00
	30.6.2	380 mm	380mm sweep RPM 900 /1400	3271.00	Each	24	78504.00
30.13			Supply and fixing of 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.	114.00	METER	130	14774
31.3		LED tube rod fixture	Supply and fixing of LED tube rod comprising of LED tube with non-integral/integr driver, upto 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with system efficacy > 100 lm/Watt. LED driver PF > 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.3.3	Tube light LED 1 X 18W	Tube light LED 1 X 18Watt, Integral i/c batten aluminium body, PC diffuser.	713.00	Each	643	458459.00
	31.3.4	Tube light LED 1 X 20W	Tube light LED 1 X 20/22Watt, Integral i/c batten aluminium body, PC diffuser.	782.00	Each	354	276828.00
31.4		LED Panel (recessed mounting)	Supply and fixing of recessed mountin type Led light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy > 100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	31.4.1	2' X 2', 36W, 3000-6500k	LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	3103.00	Each	8	24824.00

31.5			Supply and fixing of surface mounting type LED light fixture, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver, PF> 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission				
	31.5.1		LED luminaire 2' X 2', 36Watt, color temp 3000-6500k as required.	4384.00	Each	1	4384.00
	31.5.2		LED luminaire 2' X 2', 45Watt, color temp 3000-6500k as required.	4472.00	Each	1	4472.00
31.6		LED down lighter (recessed mounting)	Supply and fixing recessed mounting LED down lighter, LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job.				
	30.6.5	18/20W	15 Watt, color temp 3000-6500k as required.	1150.00	Each	10	11500.00
31.70			Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..				
	31.7.4		14/15 Watt, color temp 3000-6500k as required.	1400.00	Each	5	7000.00
31.19			Supplying, fixing and testing of approved make LED bulkhead ABS body, PC diffuser including fixing on wall as required, with necessary material complete				
	31.19.2		10W IP 55	1805.00	Each	16	28880.00
29.8			Supply and fixing of rechargeable inverter LED Bulb, reduces to 40-50% (emergency application) with Lithium Ion battery 2600mAh, backup upto 5 hrs. having color temp upto 6500K, IP-20 rating, THD (Total harmonic distortion) <20%				
	29.8.2		9W, Rechargeable Inverter LED Bulb	676.00	Each	30	20280.00
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.	90.00	Each	216	19440.00
35.14			Providing recess in brick wall suitable for erecting of exhaust fan up to 450 sweep complete with grouting of nut bolts, plastering and colour wash to match the colour of wall.				
			For wall thickness upto 9"	404.00	Each	20	8080.00
32.10			Providing and fixing T.W. board of suitable size (maximum 12" X 18") for fixing of house service Metre with necessary materials and connection testing Metc. complete as per specification :				

	32.10.1		Single phase Meter	151.00	Each	4	604.00
	32.10.2		THREE phase Meter	195.00	Each	14	2730.00
37.39		PVC insulated cu. cable earth continuity conductor	Supply and drawing PVC insulatedcopper cable (earth continuityconductor) of green colour FRLS with copper multi strand conductor ISI mark in existing conduit along with other wires as required as per specification:				
	37.39.2	6 Sq mm.	6 Sq mm.	71.00	Mtr	560	39760.00
	37.39.3	10 Sq mm.	10 Sq mm.	102.00	Mtr	755	77010.00
	37.39.4	16 Sq mm.	16 Sq mm.	156.00	Mtr	11	1716.00
31.13		Street light with high power LED system	Supply and fixing street light with high power LED of 3 to 6 Watt each on existin bracket assembled on single MCPCB and additionalunique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminiarehaving color temp upto 6500K & 50000 hrs. burning life with minimum@ L 70, The colour rendering index of LED lightshould be more than 70. Luminiarecomprises 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, testingetc. to complete the job.				
	31.13.1	40 W	40Watt to 48Watt, color temp 3000- 6500k as required.	6105.00	Each	18	109890.00
	31.13.2	60 W	60Watt to 48Watt, color temp 3000- 6500k as required.	9791.00	Each	1	9791.00
32.17		Elect. Sanitary napkin incinerator	Supply, Installation, Testing and Commissioningof 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 flexibleflue gas pipe with clamp.				
	32.17.3		Sanitary Napkin Incinerator Capacity 100 per Day)	45666.00	Each	4	182664.00
	32.17.4		Sanitary Napkin Incinerator Capacity 200 per Day)	54270.00	Each	4	217080.00
37.3		Earthing with G.I. earth plate 600x600x6 mm	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick includingaccessories 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	7487.00	Each	13	97331.00
37.5		Add extra for using salt and charcoal/ coke for G.I /copper plate (murrum)	Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required includingexcavation and refilling the pit in all type of soil, murrum	1655.00	Each	6	9930.00
	37.5.1		Add extra for using salt and charcoal/coke for G.I. plate or copper plate earth electrode as required including excavation in hard rock and refilling the pit with black soil.	2783.00	Each	7	19481.00
37.8		G.I. wire conductor earth electrode	Supply and laying 4.87mm 6 SWG G.I. wire at 0.5 metre below ground level as conductor earth electrode includingjointin etc. as required.	25.00	Mtr	60	1500.00
37.12			Providing and fixing 25mm X 5mm G.I. strip in 40 mm dia G.I. pipe from earth electrode as required	928.00	Mtr	21	19488.00
37.15			Providing and fixing 25mm X 5mm copper strip on surface or in recessed for connection etc. as required	1137.00	Mtr	105	119385.00
54.5		2MP IP varifocal MFZ dome camera	2MP IP varifocal MFZ dome camera				

	54.5.1	IP dome camera	Supply, Installation testing and commissioning of the IP dome camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 2.8 -12 mm varifocal lens, and a waterproof (IP66) enclosure. As a true day/night solution the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. illumination:-0.1lux @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).	16280	Each	22	358160.00
54.17		4 channel NVR with 1 SATA	4 channel NVR with 1 SATA				
	54.17.1	4CH network video recorder	Supply, installation testing and commissioning of 4CH network video recorder with real-time recording: up to 4 MP resolution live view, preview and playback/up to 4 channels at 1080p, within built PoE, up to 1TB supports complete with UL certification	41629	Each	2	83258.00
	54.22		16 channel NVR with 4 SATA				
			Supply, installation testing and commissioning of 16 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 4 SATA HDDs up to 32TB, 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				
	54.22.1			114098	Each	1	114098.00
	54.2		2 MP IP IR bullet camera with H.264 Video compression				
			Supply, Installation testing and commissioning of the IP bullet camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 3.6 mm fixed 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).				
	54.2.1			12480	Each	2	24960.00
54.27		8 port PoE switch with 2 SFP ports	8 port PoE switch with 2 SFP ports				0.00
	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	23024	Each	4	92096.00
54.30		Hard disk	Hard disk				0.00
	54.30.1	2 TB	Providing & fixing of 2 TB hard disk	6414	Each	2	12828.00
	54.30.2	4 TB	Providing & fixing of 4 TB hard disk	10825	Each	2	21650.00
54.31		CCTV colour monitor	CCTV colour monitor				0.00
	54.31.1	32" flat LED colour monitors	Supply, installation, testing and commissioning of 32" flat LED colour monitors.	48303	Each	3	144909.00
38.11		4 Pair un-shielded twisted pair (UTP)	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FRLS in existing surface/concealed, steel/PVC. conduit/ casing - n- capping as required.	56	Metre	550	30800.00

38.12			Supplying and drawing 4 pair shielded twisted pair (STP), 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.	104	Metre	600	62400.00
15.1		Surface PVC conduit MMS	Supplying and fixing PVC conduit ISI marked FRLS along with accessories on surface etc. as required				
	15.1.2	25 mm. MMS	PVC conduit 25 mm. (MMS)	67	Metre	325	21775.00
16.1		Concealed PVC conduit HMS	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1.1		PVC. conduit 20 mm (HMS)	61	Metre	100	6100.00
	16.1.2	25 mm. HMS	PVC. conduit 25 mm (HMS)	74	Metre	405	29970.00
55.1		Evacuated tube collectors solar water heating system	Supply, installation, testing and commissioning of evacuated tube collectors solar water heating system having water circulation natural thermo syphon suitable for inlet water with chloride hardness up to 600 ppm & TDS up to 1000 ppm comprising of evacuated tube collectors with double walled vacuum tube made from hard borosilicate glass able to resist impact from hail stone up to 30 mm in diameter, of length 1800mm having ID/OD 48/58mm, thickness 1.6mm. heavy duty HR black CGO-4 steel of 2 mm thick horizontal cylindrical hot water tank with dished end capsule shape including access doors having PUF/rock wool insulation density 42 Kg/cu. mt., 50mm thick having non-stick lining inside the tank and UV stabilized polyester pre-coated G.I. outer cover. Stand assembly for tank having polyester powder coated G.I. folded angles and electrical back up 2 KW. Heat loss < 0.70 W/ (m ² °C), The system should be as per latest specifications of IREDA/BIS/MNRE norms and valid test reports issued by authorized test centres confirm to MNRE guidelines for following capacities :-				
	55.1.3	500 LPD	Rated capacity 500 LPD, storage tank 500 Ltr	121889	Each	20	2437780.00
55.3		Water pipe line of chlorinated polyvinyl chloride (CPVC)	Supply, installation, testing and commissioning of water pipe line of chlorinated polyvinyl chloride (CPVC) SDR - 11 grade (IS 14930 Part I marked) for mentioned below size inclusive of CPVC plain and brass threaded all necessary required fittings such as elbow, tee, union, nipple, reducer, tank nipple, FABT, MABT, solvent, labor for fixing, etc. to complete the job as per specification.				
	55.3.2	20.00 mm OD	20.00 mm OD	210	P Mtr.	885	185850.00
55.4		Ball valve (brass)	Supply, installation, testing and commissioning of ball valve (brass) high low pressure with plastic floats inclusive of all necessary required material, labor for mentioned below size.				
	55.4.2	20.00 mm OD	20.00 mm OD	714	Each	21	14994.00
55.5		Gun metal gate valve	Supply, installation, testing and commissioning of gun metal gate valve with brass lever handle ISI inclusive of all necessary required material, labor for mentioned below size.				
	55.5.2	20.00 mm	20.00 mm	1308	Each	21	27468.00
55.6		CPB Bib cock	Supply, installation, testing and commissioning of CPB Bib cock inclusive of all necessary required material, labor for mentioned below size.				
	55.6.1	15.00 mm	15.00 mm	1394	Each	105	146370.00
	38.9		Supply, installation testing and commissioning RJ - 45 computer jack cat 6 with shutter modular (1Module)				
	38.9.1		RJ - 45 computer socket cat 6 with shutter modular (1Module)	288	each	16	4608.00
	38.12		Supplying and drawing 4 pair shielded twisted pair (STP), 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.	104	Metre	650	67600.00
	38.14		Supply, installation testing and commissioning of patch cord as mentioned below :-				0.00
	38.14.1		CAT 6 RJ45 patch cord UTP 1 metre	1058	each	32	33856.00
	38.14.2		CAT 6 RJ45 Patch Cord F/UTP 2 Mtr.	1801	each	32	57632.00
	38.14.3		CAT 6 RJ45 Patch Cord F/UTP 3 Mtr.	3825	each	5	19125.00

	38.17.1		Supply, installation testing and commissioning of 19" modular telephone patch panel 24 - 1 U with RJ 11 connector	9753	each	2	19506.00
	38.18		Supply, installation testing and commissioning of wall mounting rack, for computer switches complete as mentioned below :-				0.00
	38.18.1		6U cabinet 300X600X500, wall mounting with 6 point 5 Amp. socket power supply strip and fan, tray.	47900	each	3	143700.00
	38.18.3		12U cabinet 600X600X500, wall mounting with 6 point 5 Amp. socket power supply strip and fan, tray.	67089	each	1	67089.00
	54.28.1		Supply, installation testing and commissioning of 24 port PoE switch with 4 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, 56 GBPS, maximum 64 bytes packet forwarding rate, 41.7mbps, Ports 1 to 24 compliant with 802.3 at	51329	Each	2	102658.00
	16.1		Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required				
	16.1.1		PVC. conduit 20 mm (HMS)	61	Metre	250	15250.00
	16.1.2		PVC. conduit 25 mm (HMS)	74	Metre	350	25900.00
	38.1		Supplying and drawing co-axial T.V. cable RG-6 Grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheathed in existing surface/concealed, steel/PVC conduit as required.	30	Metre	142	4260.00
	38.8		Supply, fixing and testing of T.V. Outlet Modular (1Module)	175	each	6	1050.00
41.13			Supply and laying rigid PVC single socket and, non-metallic pipe ISI marked (IS-4985-2000) 10 Kg/sq.cm class 5 for protection of underground cable/or for water pump delivery side, for water supply complete with necessary clamp coupler, band, tee, elbow etc. in an approved manner excluding cost of excavation etc.				
	41.13.1		50.00mm O.D	163	Metre	225	36675.00
	41.13.3		110.00mm O.D	753	Metre	61	45933.00
	41.13.4		160.00mm O.D	1617	Metre	61	98637.00
	42.76		Supplying & fixing of fire extinguisher/refills as per IS specification				
	42.76.1		ABC type duly refilled 6 Kg & ready to use	3200	Each	16	51200.00
	42.77		Supplying & fixing of fire extinguisher/refills as per IS specification				
	42.77.1		ABC type duly refilled 6 Kg & ready to use	4269	Each	1	4269.00
	41.12		Supplying & installing G.I. pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightning conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismantling & other finished masonry Item complete.				
	41.12.1		For 'B' class pipe ISI marked (IS-1161-68)				
	41.12.1.5		40.00mm	423	Metre	70	29610.00
	41.12.1.8		80.00mm	913	Metre	30	27390.00
	38.2		Supplying and drawing following pair, 0.5 mm PVC insulated copper conductor unarmoured telephone cable in existing surface/concealed, steel/PVC conduit as required.				
	38.2.1		Telephone wire 0.5 mm, 2 Pair	19.00	meter	150	2850.00
	38.4.1		Supply, installation testing and commissioning of telephone tag block krone connector with enclosure complete as mentioned below :-				
			10 Pair	693.00	each	4	2772.00

	42.67		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.	231.00	each	3	693.00
	42.67		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.	293.00	each	4	1172.00
	29.27		Supplying, 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 415V 3 phase, 50 Hz, 4 wire system fabricated out of CRCA sheet up to 2 mm thick (1.6 mm for doors) duly compartmentalized for incomer, bus section, outgoing, cable alleys & CT, PT Ampere Meter, Volt Meter, selector switches, Frequency Meter, phase indicating lamps, Energy Meter 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 bus bar strips, Ampere Meter, Volt Meter, Selector switch as per approved design & specification	397.00	Kg	385	152845.00
	29.28		Supplying and fixing of LT Panel accessories of approved make in existing LT Panel including connections etc. as required as per specification				
	29.28.1		Digital Ampere Meter with CTs with selector switch	2125.00	per set	3.5	7438.00
	29.28.2		Digital Volt Meter with selector switch & HRC fuse	2398.00	per set	3.5	8393.00
	29.28.3		Frequency Meter	1435.00	Each	3.5	5023.00
	29.28.5		Aluminium bus bar strips with PVC sleeves	788.00	kg	23	17730.00
	29.28.6		LED lamp indicator	284.00	Each	35	9940.00
			LED lamp indicator	255.00	each	6	1530.00
	41.1		Supply of XLPE Insulated power cable (confirming IS-7098 Part-I) 1100 Volt grade, 1 core / 2 core / 3½ core / 4 core ISI MARKED with Alu. Stranded / solid conductor				
	51509		3½ CORE ARMoured				
	41.1.8.1		25 Sq.mm.	231.00	Mtr	150	34650.00
	41.1.8.3		50 sq. mm	373.00	Mtr	200	74600.00
			BRASS COMPRESSION GLAND				
	51622		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.				
	41.5.1.4		Gland size 32mm for 2/3, 3½, 4 x 25 Sq.mm OR 2/3, 3½ x 35 Sq.mm OR 2/3 x 50 Sq.mm.	158.00	Each	21	3318.00
	41.6		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-				
	41.6.1		2.5 to 6.00 sq. mm	3.00	Each	138	414.00
	41.6.2		10 sq. mm	4.00	Each	44	176.00
	41.6.3		16 sq. mm	4.00	Each	44	176.00
	41.6.4		25sq. mm	6.00	Each	44	264.00
	41.6.5		35 sq. mm	7.00	Each	32	224.00
	41.6.6		50 sq. mm	11.00	Each	32	352.00
	41.7		Supplying and fixing cramping type Alum. lugs as per I.S.S.				
			Specification suitable for following size of cable with Alu. /Copper solid/stranded conductor evenly cramped with high/pressure tool and connected to switch gear/Bus/M.C.C.B./ M.C.B. etc. as required complete.				
			For Conductor Size-				
	41.7.2		25Sq.mm	14.00	Each	88	1232.00
	41.7.3		35 sq. mm	22.00	Each	64	1408.00
	41.7.4		50 sq. mm	22.00	Each	32	704.00
	41.8		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.				
	51715		Copper lugs pin type				
	41.8.2.2		Upto 25 sq. mm conductor size	42.00	Each	89	3738.00

	41.16	Laying of one number armoured /unarmoured power cable 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc.	691.00	Mtr	50	34550.00
	41.52	Laying of underground cable armoured./ unarmoured as per specification in air suspended on existing approved type of iron clamps, G.I wire 7/1.6mm & shackle insulator / insulated strip				
	41.52.2	1 / 2 / 3 / 3½ / 4 Core cable 25 Sq.mm to 120 Sq.mm	40.00	Mtr	375	15000.00
	42.91	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 1100volts grade cable of approved make in air with necessary material as per specification of required size as mentioned below -				
	42.91.2	Single core cable(insulated neutral messenger)				
	42.91.2.1	3x25 sq.mm, 1x16(st. light), 1x35(insulated neutral	246.00	P.Mt.	45	11070.00
	41.4.4.6	Supply of XLPE insulated FRLS heavy duty power cable conforming IS-7098 (Part-1) 1988, 2/3/4/8/10/12 core 1100 Volt grade, ISI marked with copper stranded/solidconductor 16 sq. mm	909.00	meter	50	45450.00
	41.15.2	Laying of one number armoured /unarmoured power cable 1.1.KV grade of size exceeding 25sq. mm but not exceeding 120 sq. mm direct in ground including excavation in all soil/ murrum /soft rock, sand cushioning, protective covering and refilling the pit etc. as required.	246.00	meter	225	55350.00
41.1	41.1	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				
	41.1.1	Unarmoured 1 core				
	41.1.1.8	150 sq. mm.	266	Metre	40	10640.00
	41.1.1.9	300 sq. mm.	483	Metre	80	38640.00
						0.00
	41.1.6	Armoured 3 core				0.00
	41.1.6.1	6 sq. mm.	112	Metre	150	16800.00
						0.00
	41.1.8	3½ core armoured				0.00
	41.1.8.4	70 sq. mm	500	Metre	250	125000.00
	41.1.8.5	95 sq. mm.	625	Metre	100	62500.00
	41.1.8.6	120 sq. mm.	780	Metre	100	78000.00
	41.1.8.7	150 sq. mm.	904	Metre	100	90400.00
	41.1.8.8	185 sq. mm.	1150	Metre	100	115000.00
	41.1.8.9	240 sq. mm.	1460	Metre	100	146000.00
	41.1.8.10	300 sq. mm.	1792	Metre	500	896000.00
	41.1.10	4 core armoured				
	41.1.10.1	6 sq. mm.	151	Metre	200	30200.00
	41.1.10.2	10 sq. mm.	181	Metre	1700	307700.00
	41.1.10.3	16 sq. mm.	218	Metre	200	43600.00
	41.1.10.4	25 sq. mm	279	Metre	300	83700.00
	41.4	Supply of XLPE insulated FRLS heavy duty power cable conforming IS-7098				
	41.4.2	Armoured 3 core				
	41.4.2.3	6 sq. mm.	314	Metre	5	1570.00
	41.4.2.4	10 sq. mm.	504	Metre	10	5040.00
	41.4.2.5	16 sq. mm.	723	Metre	200	144600.00
	41.4.4	Armoured 4 core				
	41.4.4.4	6 sq. mm.	430	Metre	1000	430000.00
	41.4.4.5	10 sq. mm.	625	Metre	400	250000.00
	41.4.4.6	16 sq. mm.	909	Metre	600	545400.00
	41.4.4.7	25 sq. mm.	1455	Metre	400	582000.00
	41.5	Brass compression gland				
	41.5.1	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.				
	41.5.1.1	Gland size 22mm suitable for cable 2,3,3½ & 4 x upto 6 sq. mm	79	Each	16	1264.00
	41.5.1.2	Gland size 22mm suitable for cable 2/3, 3½, 2/4 x 10 sq. mm or 2x 16 sq. mm	97	Each	16	1552.00

	41.5.1.3		Gland size 28mm for 3/4 x 16 sq. mm	138	Each	24	3312.00
	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	158	Each	6	948.00
	41.5.1.5		Gland size 38 mm 3½ x 70 sq. mm, 3x95 sq. mm	219	Each	8	1752.00
	41.5.1.6		Gland size 45 mm 3/3½ x 120 sq. mm, 3½ x 95 sq. mm, 3 x 150 sq. mm.	260	Each	2	520.00
	41.5.1.7		Gland size 50 mm ,3½ x 150 sq. mm,3 x 185 sq. mm	290	Each	6	1740.00
	41.5.1.8		Gland size 57 mm, 3 x 225 sq. mm, 3 ½ x	440	Each	6	2640.00
	41.5.1.9		Gland size 70 mm, 3 x 240 sq. mm, 3½ x 300 sq. mm	605	Each	12	7260.00
	41.7		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-				0.00
	41.7.1		6mm to 16 sq. mm	8	Each	50	400.00
	41.7.2		25 sq. mm	14	Each	16	224.00
	41.7.3		35 sq. mm	22	Each	16	352.00
	41.7.4		50 sq. mm	22	Each	8	176.00
	41.7.5		70 sq. mm	35	Each	2	70.00
	41.7.6		95 sq. mm	48	Each	2	96.00
	41.7.7		120 sq. mm.	58	Each	2	116.00
	41.7.8		150 sq. mm.	66	Each	6	396.00
	41.7.9		180 sq. mm.	76	Each	6	456.00
	41.7.10		240 sq. mm.	116	Each	6	696.00
	41.7.11		300 sq. mm.	138	Each	12	1656.00
	41.8		Supplying & fixing pin terminal lugs as per ISS specification suitable for cable				0.00
	41.8.2		Copper lugs pin type				0.00
	41.8.2.1		Upto 16 sq. mm conductor size	30	Each	200	6000.00
	41.13		Supply and laying rigid PVC single socket and, non-metallic pipe ISI marked (IS-				0.00
	41.15.3		Laying of one number armoured / unarmoured cable 1.1KV 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.	266	Metre	100	26600.00
	41.15.6		Laying of one number additional armoured / unarmoured power cable 1.1KV grade of size exceeding 120 sq. mm. but not exceeding 400 sq. mm. direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the pit etc. as required.	159	Metre	100	15900.00
	41.15.8		Laying of one number armoured / unarmoured power cable 1.1 KV grade of size exceeding 25 sq. mm but not exceeding 120 sq. mm. in the existing RCC Hume /Stone ware/G.I. Pipe/surface in existing trench as required.	35	Metre	100	3500.00
	41.17		Laying of one number armoured/unarmoured cable 1.1KV grade of size not exceeding 25 sq. mm on wall/truss with approved type of iron clamp etc. as required.	25	Metre	150	3750.00
							0.00
	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.	71	Metre	100	7100.00
			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.				0.00
	41.20.3		1/2/3/3½/4 Core cable 150 sq. mm and above	66	Metre	366	24154.94
	4.23		Supply &fixing cable route marker round/square size 100mm, 5mm. thick, G.I. Plate duly bolted/welded on 35mm x 35mm x 5mm angle iron 60cm long including excavation, grouting in cement concrete 1:2:4 (1cement and 2 coarse sand: 4 graded stone aggregate 20mm nominal size) foundation of size 20cm x 20cm x 30cm duly embedded in ground 30cm depth or as required.	299	Each	15	4485.00

	41.24		Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron/hanging rod, for ceiling suspensions, clamp, anchor fastener, nuts, bolts, washers, not more than 1.0 mtr. apart complete as per specification to complete the job. The tray				0.00
			shall be as follows :-				0.00
	41.24.1		100 x 50 x 1.6mm thick	586	Metre	200	117200.00
	41.24.2		150 x 50 x 1.6mm thick	699	Metre	200	139800.00
	41.24.3		300 x 50 x 1.6mm thick	1027	Metre	200	205400.00
	41.24.5		600 x 50 x 2 mm thick	1909	Metre	200	381800.00
			CAMPUS LIGHTING				
31.13		Street light with high power LED system	Supply and fixing street light with high power LED of 3 to 6 Watt each on existing bracket assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF> 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347 i/c connection wire, testing etc. to complete the job.				
	31.13.2	60 W	60Watt, color temp 3000-6500k as required.	9791.00	Each	8.00	78,328.00
42.3		Steel tubular pole	Supply of steel tubular pole swaged type as per IS:2713-1980 complete with base plate and top Canopy				0.00
	42.3.9	SP-26 - 9.00 metre	410 SP-26 - 9.00 metre	9933	Each	8	79,464.00
41.1		XLPE insulated power cable, al. conductor	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				0.00
	41.1.3	Unarmoured 2 core	Unarmoured 2 core				0.00
	41.1.3.1	2.5 sq. mm.	2.5 sq. mm.	42	Metre	80	3,360.00
	41.1.6	Armoured 3 core	Armoured 3 core				0.00
	41.1.6.1	6 sq. mm.	6 sq. mm.	112	Metre	114	12,820.00
	41.1.6.2	10 sq. mm.	10 sq. mm.	142	Metre	130	18,460.00
41.14		Double wall corrugated pipes (DWC) of HDPE	Supplying and installing double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid underground with necessary material and at required depth upto 90cm. below road/ground surface, including excavation, back filling with excavated material, ramming and making the surface good.				0.00
	41.14.1	50.00mm outside dia.	50.00mm outside dia.	133	Metre	6	798.00
	27.8.1	Single pole	SINGLE POLE				0.00
	27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	263.00	Each	6.00	1,578.00
27.1		MCCB 3Ph, 3 Pole, 50Hz, 415V	Supply of ISI marked and approved make of moulded case circuit breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828				0.00
	27.1.1	MCCB upto 63,1	MCCB current rating - upto 63 Amp , 10kA, 3P 415V AC	2721	Each	1	2,721.00
27.11		SPN MCB DB	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)-				0.00
	27.11.1	2 Way single door	2 Way single door	447	Each	6	2,682.00
28.4		Fixing of MCB/MCCB/Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)				0.00
	28.4.1	MCB/Isolator SP/DP	MCB/Isolator SP/DP	22	Each	6	132.00
	28.4.2	MCB/MCCB Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	28	Each	1	28.00

27.23		Steel enclosure, neutral bar suitable for MCB/RCBOs/ MCCB	Supply & fixing of approved make accepted standard sheet steel enclosure (dust protected) duly powder coated paint neutral bar suitable for MCB/RCBOs/MCCB of capacity as required etc. complete as per specification (exclusive of M.C.B./ MCCB/RCBOs)				0.00
	27.23.2	For MCCB	For MCCB				0.00
	27.23.2.1	63A/100A, 3P/4P enclosure	63Amp/100Amp, 3P/4P enclosure	1225	Each	1	1,225.00
28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCBDB flush mounting type , as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-				0.00
		For item	For item no :-				0.00
	28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	268	Each	6	1,608.00
			PUMP				
	39.2		Supplying & installation of required capacity of three phase, 50 Hz, 415V, deep well submersible pump steel body, as per IS of approved make, suitable upto 6 " tube well with control panel starter suitable for submersible pump with dry run protection, single phase preventer, connections, including clamp, bore cap etc. as required as per specifications but excluding pipe and connection cable.				
	39.2.7		5 HP with upto 5 stages, head metre 55-13, discharge LPM 120-510	55145	Each	2	1,10,290.00
	39.3		Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make.				
	39.3.3		6.0 sq.mm multi strand	308	Metre	240	73,920.00
	39.4		Supplying and laying of approved make HDPE pipe as per IS:4984 and IS:14333 with latest amendment for installation of submersible pump with necessary connection, socket/couplings, tees, etc. as required (PE-63 & working pressure 6 kgf/sq cm)				
	39.4.4		50 mm Outer Dia.	279	Metre	225	62,875.44
	39.10.1		3.0 HP head metre 12-36, discharge LPM 528-120	40286	Each	1	40,286.00
	39.10.2		5.0 HP head metre 12-28, discharge LPM 1200-390	47724	Each	1	47,724.00
	41.1		Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor				
	41.1.6		Armoured 3 core				
	41.1.6.1		6 sq. mm.	112	Metre	98	10,976.00
	41.15.31		Laying of one number armoured/unarmoured cable 1.1KV grade of size not exceeding 25 sq. mm on surface in existing trench etc. as required.	25	Metre	98	2,450.00
			DG SET				
	48.1		Supply, installation, testing and commissioning of 'Silent Type' diesel generating set comprising with diesel engine water cooled, Synchronous alternator, AMF control panel single/three phase, acoustic enclosure, battery with charger and related accessories including PCC 1:2:4 platform, incoming cable 10 mtr, earthing Cu/GI plate 2No/2No, exhaust pipe 'B' class with insulation as per CPWD specification and CPCB - II Norms.				
	48.1.12		Supply, installation, testing and commissioning of diesel generating set three phase, water cooled with AMF control panel, 100 KVA, 415V. With electronic governor.	2032070	Each	1	20,32,070.00
	41.4		Supply of XLPE insulated FRLS heavy duty power cable conforming IS- 7098 (Part-1) 1988, 1100 Volt grade, 2/3/4/8/10/12 core ISI marked with copper stranded/solid conductor.				
	41.4.7		Armoured 12 core				
	41.4.7.1		2.5 Sq. Mm.	540	Metre	40	21,600.00
	41.15.31		Laying of one number armoured/unarmoured cable 1.1KV grade of size not exceeding 25 sq. mm on wall/truss with approved type of iron clamp etc. as required.	25	Metre	40	1,000.00

	25.16		Supply & fixing of I.S.I. marked porcelain rewirable fuse unit of approved make or conforming to I.S. 2086-1982				
	25.16.6		200Amp/415 Volts	983	Each	6	5,898.00
			CAMPUS FEEDER AND LIGHT				
	27.8		Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-				
	27.8.1		Single pole				
	27.8.1.2		MCB SP 6Amp to 32Amp 10kA rating	263	Each	70	18,410.00
	27.8.4		Four pole				0.00
	27.8.4.2		MCB FP 6Amp to 32Amp 10kA rating	1965	Each	6	11,790.00
	28.4.2		MCB/MCCB Isolator TP/TPN/FP	28	Each	6	168.00
	29.6		Supply and fixing of multi core round FRLSH PVC insulated copper (flexible) conductor & PVC sheathed cables 1100Volts as per IS:694-1990 of approved make				
	29.6.3		(30/0.25 mm) Three core 1.5 sq.mm.	50	Metre	150	7,500.00
	29.32		Supplying and fixing of analog time switch for automatic ON - OFF street light of approved make in existing LT panel including connections etc. as required as per specification				
				2689	Each	2	5,378.00
	31.11		Supply and fixing integral post top lantern LED fitting comprises of copper dust finish cast aluminium spigot and spun aluminium canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting, open construction driver and accessories are wired upto terminal block. LED of 1 to 3 Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100lm/Watt. LED driver PF > 0.95 & surge protection 10KV. 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.				0.00
	31.11.1		40 Watt LED, color temp 3000-6500k as required.	7768	Each	20	1,55,360.00
							0.00
	31.13		Supply and fixing street light with high power LED of 3 to 6 Watt each on existing bracket assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF> 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347 i/c connection wire, testing etc. to complete the job.				
	31.13.2		60Watt, color temp 3000-6500k as required.	9791	Each	90	8,81,190.00
	31.14		Supplying and fixing flood light with high power LED of 3 to 6 Watt each 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, IEC61347i/c connection wire, testing etc. to complete the job.				0.00
	31.14.3		60Watt, color temp 3000-6500k as required.	7872	Each	18	1,41,696.00
	31.14.4		90Watt, color temp 3000-6500k as required.	11553	Each	5	57,765.00
	31.14.5		120Watt, color temp 3000-6500k as required.	16022	Each	4	64,088.00
	31.14.6		150Watt, color temp 3000-6500k as required.	21572	Each	4	86,288.00
	31.14.7		180Watt, color temp 3000-6500k as required.	27268	Each	2	54,536.00
	31.14.8		250Watt, color temp 3000-6500k as required.	34279	Each	2	68,558.00

	37.17		Providing and fixing 4.0mm (8 SWG) dia G.I. wire on surface or in recessed for loop earthing as required	25	Metre	1400	35,000.00
	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.	293	Each	70	20,510.00
			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.				
	42.98.5		7 meter height, 130 X 70mm A/F, 220x220x12mm base plate, 4 nos. X 20 x 700mm bolt	9863	Each	70	6,90,410.00
	42.100		Providing and fixing of sword canopy type single arm GI bracket upto 2 meter Long for 70mm A/F top octagonal pole	1658	Each	50	82,900.00
	42.102		Providing and fixing of sword canopy type double arm GI bracket upto 2 meter Long for 70mm A/F top octagonal pole	2200	Each	20	44,000.00
			Providing and erection of black painted galvanized decorative designer poles in different section, top 60mm dia., bottom 140mm dia. with gold colour painted ornamental cast aluminium ring having lockable weather proof flush door junction box in bottom section, base plate dia. 290mm having 4 holes of 22mm dia. complete erected in an approved manner on existing foundation. Suitable size & type of foundation bolts 4 nos. X 16mm X 450mm 'J' type (EN8 grade)				
	42.107.1		3 meter Height	17737	Each	0	0.00
	42.111		Designing and construction of footing foundation for octagonal pole of desired size including excavation in soil/soft rock, base concrete M-7.5 (1:4:8), 15mm thick and pedestal of RCC M-20 (1:1.5:3), required tar steel reinforcement for required size from base concrete, shuttering, curing etc. with existing foundation bolts complete as per specifications in an approved manner as per manufacturer drawing or engineer-in-charge.	6770	Cu. Mt.	28.58	1,93,469.50
	52.6		Modular contactor for the lighting feeder panel				0.00
	52.6.1		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) Surge overvoltage protection device	4181	Each	2	8,362.00
	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"	397	Kg	449	1,78,343.91
			EXTERNAL ELECTRIFICATION				0.00
	29.28		Supply and fixing of LT panel accessories of approved make in existing LT panel including connections etc. as required as per specification.				0.00
	29.28.1		Digital Ampere Metre with CTs with selector switch	2125	per set	2	4,250.00

	29.28.2		Digital Volt Metre with selector switch & HRC fuse	2398	per set	2	4,796.00
	29.28.3		Frequency Metre	1435	Each	2	2,870.00
	29.28.5		Copper bus bar strips with PVC sleeves	788	Kg	10	7,880.00
	29.28.6		Aluminium bus bar strips with PVC sleeves	284	Kg	45	12,780.00
	29.28.7		LED lamp indicator	255	Each	6	1,530.00
	37.17		Providing and fixing 4.0mm (8 SWG) dia G.I. wire on surface or in recessed for loop earthing as required	25	Metre	500	12,500.00
	37.19		Providing and fixing 4.00mm copper wire on surface or in recessed for loop earthing as required	127	Metre	80	10,160.00
	37.35.1		Providing and fixing earthing arrangement with 16mm dia 2.5 metre long galvanized iron or steel rod electrode including packing of charcoal powder and salt as per specification watering pipe 19mm dia G.I. connection, cover plate having locking arrangement on the top etc. complete with refilling the pit as required, including excavation of earth pit in soil/ soft rock.	3318	Each	2	6,636.00
	37.21.1		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.	3947	Each	2	7,894.00
	37.24		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	107	Each	30	3,210.00
	37.25		Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for horizontal runs)	567	Metre	300	1,70,100.00
	37.26		Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for vertical runs)	591	Metre	300	1,77,300.00
	37.31		Providing and fixing "Testing Joint" made by 20mm X 3mm thick copper strip 125mm long with 4 Nos of tinned Brass bolts, Nut, check nuts and spring washers etc. complete as required.	525	Each	20	10,500.00
	37.37		Supply and laying G.I. earth lead duly installed on wall or in G.I. Pipe including connection etc. complete as required.				0.00
	37.37.1		13 sq. mm. (4 mm dia)	26	Metre	80	2,080.00
	37.40		Supply and erection of approved make safe earthing electrode consisting pipe-in-pipe technology as per IS 3043-1987 made of corrosion free G.I. pipes with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for effective and maintenance free earthing in earth pit of minimum bore dia. 150mm size, as mentioned below :				0.00
	37.40.2		With 3 metre G.I. pipes having outer pipe dia of 50mm having 80-200 micron galvanizing, Inner pipe dia. of 25mm having 200-250 Micron galvanizing, connection terminal dia. of 12mm in nominal soil with 50 kg (two bag) back filling bentonite compound UL listed and confirm to relevant International/Indian standards around electrode upto ground level.	13140	Each	4	52,560.00
	37.40.4		With 3 metre pipe of 80mm outer dia., 40mm inner dia and 14mm terminal dia. In soft/hard rock/marshy soil with 50 kgs. (two bag) back filling bentonite compound UL listed and confirm to relevant International/Indian standards around electrode upto ground level.	21419	Each	4	85,676.00
	37.42		Supply and installation of polycarbonate heavy duty pit cover tested for 5000Kg SWL for earth electrode at ground level size 300x300x155 mm with lockable lid.	1501	Each	8	12,008.00

	42.14	Supplying and erection of water tight terminal box made of PC-GFS (polycarbonate), IP 66 /IP 67 (cable entry systems LES) in accordance with IEC 60670-22, resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc. insulation voltage 1000 V a.c./d.c., wall thickness of the bottom part 2 / 2.7 mm of required size suitable for kit kat/MCB/switch including 2nos. pole clamp of M.S. flat iron size 32x3mm, nut and bolts, excluding the cost of the kit kat/MCB/Switch, 4 Pole epoxy connector nut & bolt type, 30Amp, 500V complete as per specification as mentioned below				0.00
	42.14.1	104 x 104 x 70 mm	452	Each	4	1,808.00
	42.14.2	130 x 180 x 77 mm	889	Each	2	1,778.00
	42.14.3	155 x 210 x 92 mm	1384	Each	8	11,072.00
	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.	293	Each	10	2,930.00
	29.15	Supply and fixing as per specification caution/danger board of approved make with necessary material complete.				0.00
	29.15.1	Small size 200 X 150 mm for MV/LT	97	Each	2	194.00
	25.5	Supply of ISI marked On-Load change over switches panel mounting type conforming to IS: 13947 (part I & III) with front operated 4 pole, 415 V with two earthing terminals if required.				0.00
	25.5.8	400Amp (open - execution)	22650	Each	2	45,300.00
	29.18	Supply, fixing and testing of mixed dielectric ultra-heavy duty APP capacitor 440Vlt, 3 Ph., peak inrush current upto 500 x In, over current upto 3 x In(normal current), operating losses total not more than 0.35 W/kVAR, operating life not less than 300000 hrs, switching 20000 operation/year, as per IS:13340-1993, IS:13341-1992, IS:13585-1994, of approved make as required as per specification				0.00
	29.18.1	5 to 25 kVAR bank	849	Each	200	1,69,800.00
		PUMPS, CABLES & PANELS FOR FIRE FIGHTING				
	39.20	Supplying, installation, testing & commissioning of approved make booster pump mono-block horizontally mounted with motor (Eff-2) 7.5hp, 2900 RPM, 3 Ph 415 V with mechanical seal pump, delivery of 600 LPM at 35 MWC against total head of 32 meter. The impeller shall be closed type and accurately balanced dynamically i/c base channel foundation etc. as required as per specifications.	35000	Each	3	1,05,000.00
	39.25	Supply installation, testing and commissioning of approved make DOL starter 7.5 hp, 3 phase, 50 Hz, 415V, i/c single phase preventer, incoming MCB 32A 4P, 10KA, in outdoor type enclosure, connections, as required as per specifications	5000	Each	3	15,000.00
		SUBSTATION				
	34.4	Painting of poles				
	34.4.2	Prima coat over new steel and other metallic surface with red oxide zinc chromide paint complete with supply of material labour etc. including preparation of surface.	76	Per sq meter	270	20,520.00
	34.4.3	Prima coat with aluminium paint, brushing complete with material and labour including preparation of surface	96	Per sq meter	270	25,920.00
	42.2	Supply of support for overhead line RS joist of I.S. standard including drilling of required hole etc. complete as required.				
	42.2.2	R.S. Joist 175x90 - 19.3 kg/metre	1467	Metre	90	1,32,030.00
	42.2.6	H - Beam 152x152mm, Std weight 37.1 Kg/Mtr	2843	Metre	260	7,39,180.00
	42.5	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)				0.00
	42.5.4	AAAC 0.1 sq inch (100 sq.mm Al. EQ.)-(Dog)	104339	Km.	4.64	4,84,132.96

42.19		Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length 7 metres but not exceeding 10 metres in cement concrete 1:3:6 (1 cement : 3 core sand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffling including excavation and back refilling etc. as required.	4074	Each	10	40,740.00
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, muffling including excavation and back refilling etc. as required.	5289	Each	20	1,05,780.00
						0.00
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 x 7.5mm 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.	4600	Each	30	1,38,000.00
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.	105	Kg.	900	94,500.00
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.	402	Each	96	38,592.00
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.	502	Each	18	9,036.00
42.56		Labour for erection of 11/33KV polymer pin insulator complete with hardware as required.	160	Each	96	15,360.00
42.57		Labour for erection of 11/33KV polymer disc insulators for 11/33KV overhead lines complete with hardware as required.	259	Each	18	4,662.00
42.6		Supplying and erection of single piece nonlinear resistor polymer type lighting arrester (set of 3 nos) for 3 wire, 11KV overhead lines/sub- station with rated voltage of 9KV (rms) with a nominal discharge current rating of 10 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	3617	Set	2	7,234.00
42.62		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.)				0.00
42.62.1		11 KV, 400Amp	8989	set	2	17,978.00
						0.00
42.63		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.				0.00
42.63.1		11KV	4721	set	2	9,442.00
42.67		Supply & fixing anti climbing device with 2 ply G.I. barbed wire 1 Kg. per pole complete as per MPMKVVC0. Specification.	231	Each	32	7,392.00

42.70		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				0.00
		and above.				
		Energy efficiency level -3				
42.70.3		Aluminium wound				
42.70.3.4		200 KVA	714495	Each	2	14,28,990.00
42.76		Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire for 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 with angle iron/ flat iron members /cross members including mesh fix on frame and erected between the post. The angle iron post shall be erected in cement concrete M-15 (1:2:4) (20 mm graded metal) foundation, cement concrete, 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.	1491	sq.mt	128	1,90,848.00
42.77		Supplying & fixing of Fire Extinguisher/ Refills as per IS specification				0.00
42.77.1		ABC type duly refilled 6 Kg & ready to use	4629	each	4	18,516.00
42.77.5		4 buckets set with sand, self supported M.S. stand i/c shed duly painted with red colour as per IS.	5089	each	2	10,178.00
42.77		Supply of Rubber mat 2 x 1.0Mtr, 1100V Tested	1913	each	4	7,652.00
42.78		Supply of hand gloves 11KV tested	1077	pair	2	2,154.00
42.80		Supply of Fiber Discharge Rod I/C Connection copper Lead Tested	4042	each	2	8,084.00
42.81		Supply of Fiber D.O Operating Rod for 11 / 33KV Tested	3854	each	2	7,708.00
42.82		Supply of First Aid Box complete with medicine & bandage as per specification.	1646	set	2	3,292.00
42.83		Supply of shock instruction chart duly framed with glass, as reqd.	539	each	2	1,078.00
42.87		Designing and construction of Pedestal (Plinth) for transformer of desired size including excavation in hard rock/soft rock, base concrete 1:4:8, 20mm thick and pedestal of RCC 1:2:4 including required reinforcement for	7379	Cum	5.2	38,370.80
						0.00
42.89		Collection and spreading of metal dust, murum and 40mm graded hard metal in sub-station yard or as required as mentioned below -				0.00
42.88.1		(i) Metal Dust	1274	Cum	4	5,096.00
42.88.2		(ii) Murom	847	Cum	4	3,388.00
42.88.3		(iii) Metal 40 mm	1478	Cum	4	5,912.00
42.90		Supplying & drawing/laying of PVC insulated XLPE aerial bunch power cable conductor H2/H4 grade aluminium solid/stranded conforming to IS-14255, 1995 and alloy insulated messenger 1100 Single core cable (insulated neutral messenger)				0.00
						0.00
42.90.2.1		3x25 sq.mm, 1x16(st. light), 1x35(insulated neutral messenger)	246	P.Mt.	200	49,200.00
42.90.2.2		3x35 sq.mm, 1x16(st. light), 1x35(insulated neutral messenger)	311	P.Mt.	200	62,200.00
42.90.2.5		3x95 sq.mm, 1x16(st. light), 1x50(insulated neutral)	647	P.Mt.	200	1,29,400.00
42.90.2.6		3x120 sq.mm, 1x16(st. light), 1x70(insulated neutral)	808	P.Mt.	300	2,42,400.00
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.	427	Each	12	5,124.00

	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.	446	Each	6	2,676.00
			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 -				0.00
	42.93.1		Main:16-95sq.mm, tap:1.5-50sq.mm	172	Each	20	3,440.00
			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				
	42.94.2.2		3Ph, 1In+4Out	5839	Each	6	35,034.00
	42.94.2.3		3Ph, 1In+6Out	7276	Each	4	29,104.00
	18.18		Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1cement :2 sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement :5 sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 sand) 12mm thick finished with a floating coat of neat cement complete as per standard With well burnt flyash bricks of 50 kg/sqm compressive strength. design :-				
	18.18.2		30x30x50	870	Each	30	26,100.00
A			LED TELEVISION 65'				
1	NON SOR	Smart TV 65" TV	Screen Size -65, Brightness(cd/m) 440,Contrast Ratio -1200:1,Dynamic Contrast Ratio , 300,000:1 Response Time (ms)-8.0,Displayresolution(H x V, pixels)-3840 x 2160,HDR (High Dynamic Range) compatibility-Yes(HDR10, HLG, Dolby Vision),AspectRatio-16:9DisplayDevice-LCD Panel Type -IPS , TRILUMINOS Display-TRILUMINOSPRO, Color gamut (DCI-P3)-92%, Picture Processor-4K HDR Processor X1,Operation time-24/7, Haze (%)1% , Video Processing-4K X- Reality PRO, Motion enhancer-Motionflow XR 240 (Native 60Hz),Audio Power Output-10W + 10W Pro mode-Yes, HDMI auto wake-up-Yes, HTML5 platform- Yes, Multicast/IPTV-Yes,Operating System-AndroidTV, On-board Storage (GB)- Side Analog Conversion),Digita Audio Output (s)-1(Side),Ethernet inputs-1(Side)-USB ports-2(Side) Brand :- Only Sony Comaricial TV	1	Each	1,29,990.0	129990.00
B			WATER PURIFIER				-

2	NON SOR	Water Cooler RO+UV	Providing & supplying Potable water purification system with inbuilt water cooler RO +UV, Certification for the product CE, Conformity to Standard for Ultraviolet system IS 14724 (latest) for water purification system with Ultraviolet disinfection, Power consumptions of system (with ± 5% tolerance) (in watt) 300, Maximum Input Water TDS allow to the system 1000, Operation mode Fully automatic with auto cut off, Material of water Storage Tank ABS Food Grade, Storage tank capacity up to float valve level (in liter) 80, RO Membrane rating 75 GPD, RO Membrane flushing Auto flush at every start, every stop and every one hour for 1 minutes, Particulate Filter size 10 inch, Particulate Filter Porosity 5 micron, Activated Carbon filter Size 10 Inch, Minimum inlet pressure 0.3 KG/CM2, Recovery percentage at 27 degree centigrade 70-80, Filtration water capacity in liter/ hour 50, TDS removal percentage from RO Membrane 75%, Pressure vessel Sand Filter, Pressure vessel Carbon Filter, Pressure Vessel Dual Media Filter, Body of filter ABS Food grade, Membrane Housing, Number of candles 2, Type of compressor Rotary, Refrigerant Used HFC-R-134/A, Refrigeration temperature 15 to 17, Number of Cold Water Faucets 2, Cooling capa 50, Cooling capacity at comfort level (17 ± 1 degree celsius) (in liter per hour) 20, Installation Type Floor Mounted, Power supply SINGLE PHASE (230 ± 10 % VOLT, %0 Hz), Warranty period without Filter & inclusive of electronic and electrical parts 1				-
		80 Liter Water Cooler	(Voltas Water Cooler FS2020)/ Or Equivalent	3	Each	34,824.0	104472.00
			MPMKVV Co.Ltd Supervision Charge + Service Connection Charge Etc.				192000.00
			Total Electrical	(B)			3,33,66,849.06
			Total Amount Civil Work (A)				286407409.00
			Total Amount Electrical Work (B)				3,33,66,849.06
			TOTAL WORK AMOUNT	(A+B)			319774258.06

Sub Engineer (Building)
P.W.D. PIU Betul

Assistant Engineer (Building)
P.W.D. PIU Betul

Executive Engineer (Building)
P.W.D. PIU Betul

Sub Engineer (Building) E/M
P.W.D. PIU Betul

Assistant Engineer (Building) E/M
P.W.D. PIU Betul