

Name of Work-Construction/Upgradation of Secondary Schools,BRC Bhavan,ALS Hostel, KGBV at various Location in PATAN district.

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1447.78	128.79	Cmt.	186459.59
2	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	471.50	142.78	Cmt.	67320.77
3	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(D) Soft rock not requiring Blasting	75.00	291.30	Cmt.	21847.50
4	Filling with the available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	1518.80	137.47	Cmt.	208789.44
5	Filling foundation and plinth with murrum or selected soil in layers of 20 cm. thickness including watering, ramming and consolidation etc. complete.	1351.85	273.86	Cmt.	370217.64
6	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6. (1- Cement : 6 -finesand)(C) Fly Ash Bricks	208.60	4225.38	Cmt.	881414.27
7	Masonry work with aerated light weight concrete Blocks of size 60cm x 23cm x 23cm or any other approved size, having crushing strength @ 35 kg/sqcm Fixing with ready-mixed mortar ('Fixoblock' of M/s Ultratech cement Ltd./Rapid Fix/Lion) having tensile adhesion strength >0.8 N/mm ² and compressive strength of >2N/mm ² . The mortar is to be fixed in a thickness of 3mm to 5mm on the clean and leveled surface of block masonry using proper trowel. For all floor and lead and lift For superstructure.	248.23	4432.45	Cmt.	1100267.06
8	Brick work using common burnt clay building bricks having crushing strength not less than 35Kg./Sq.Cm. for superstructure in cement mortar 1:6 (1 cement : 6 fine sand) including curing etc. complete. (C) Fly Ash Bricks For all heights and all floor	95.88	4520.52	Cmt.	433427.46
9	Half brick in common burnt clay building bricks having crushing strength not less than 35 Kg/sq.cm in cement mortar 1:4 (1 cement : 4 coarse sand) (C) Fly Ash Bricks in super structure including curing etc. complete. For all floors	89.00	675.15	Smt	60088.35
10	Providing & laying Cement Concrete 1:4:8 (1 Cement : 4 Coarse sand : 8 hand broken stone aggregates of 40mm nominal size) in plinth and curing complete including cost of formwork. (A) Foundation and Plinth - At plinth level	154.63	2660.31	Cmt.	411363.74
11	Providing and laying cement concrete 1:5:10 (1- Cement : 5- Coarse sand : 10- hand broken stone aggregates 40 mm nominal size) and curing complete including cost of formwork in (A) Foundation and Plinth	9.90	2497.54	Cmt.	24725.65
12	Providing & laying Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 graded stone aggregate 20 mm nominal size) & curing complete including cost of form work (A) Foundation and Plinth - Below Tie beam, Plinth protection & surface leveling work.	34.30	3575.49	Cmt.	122639.31
13	Providing and laying cement concrete flooring 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement. (A) 40mm thick.	18.00	304.47	Smt	5480.46
14	Providing and laying controlled cement concrete M.150 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete (Cement Level 290 Kg)	83.79	4029.75	Cmt.	337652.75

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
15	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Coping Vertical and horizontal for all floor (Cement Level 360 Kg)	40.25	6271.23	Cmt.	252417.01
16	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and Excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.(Cement Level 380 Kg)	328.23	4268.37	Cmt.	1401007.09
17	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and Excluding the cost of reinforcement for reinforced concrete work in Plinth Beams. (Cement Level 380 Kg)	90.52	5890.02	Cmt.	533164.61
18	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Lintels all floor (Cement Level 360 Kg)	15.97	7706.11	Cmt.	123066.58
19	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Chajja all floor (Cement Level 360 Kg)	10.40	7415.97	Cmt.	77126.09
20	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Beams all floor (Cement Level 360 Kg)	86.81	6632.22	Cmt.	575743.02
21	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts all floor (Cement Level 380 Kg)	25.46	6998.87	Cmt.	178191.23
22	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts all floor (Cement Level 360 Kg)	75.60	6943.31	Cmt.	524914.24
23	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Slab all floor (Cement Level 360 Kg)	138.00	6877.18	Cmt.	949050.84
24	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (E) Staircases including landing all floor (Cement Level 360 Kg)	7.90	7366.38	Cmt.	58194.40
25	Providing I.S.I. T.M.T Bars Fe.500D steel reinforcement (ISI mark) Confirmed to IS-1786 for R.C.C.work including Cutting, bending, binding and placing in position etc. complete.For all floors	88597.29	77.29	Kg.	6847684.84
26	Providing 10mm thick cement plaster in single coat on on brick/concrete walls & Ceilling & Soffit of stair interior plastering in cement mortar 1:4(1 cement 4 sand) watering, curing etc. complete.For all floors	1433.12	155.39	Smt	222692.52
27	Providing 15mm thick cement plaster in single coat on rough or fair side of single or half brick wall for interior plastering in cement mortar 1:4(1 cement 4 sand) watering, curing etc. complete.For all floors	1253.67	216.28	Smt	271143.75
28	20mm thick sand faced cement plaster on walls above ground level consisting of 12mm thick backing coat of cement mortar 1:3(1 cement 3 sand) and 8mm thick finishing coat of cement mortar 1:1(1 cement 1 sand) watering, curing etc.complete for any Height.	1543.99	330.72	Smt	510628.37

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29	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete. The rate shall be including of providing two coats of primer of approved brand and manufacturer on new wall surfaces to give and even shade including throughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	1543.99	122.14	Smt	188582.94
30	Distempering with dry distemper of approved brand and manufacture (two coats) and of required shade on wall surfaces to give an even shade, over and including applying one coats of Birla (White Cement based) or Asian (acrylic lapy) or equivalent and a priming coat of whitening after thoroughly brooming the surface free from mortar dropping and other foreign matter and sand paper smooth. The rate shall be including scraping and old deteriorated of existing paint.	2686.79	94.32	Smt	253418.03
31	Painting two coats (excluding priming coat) on new steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the	459.14	69.15	Smt	31749.53
32	Providing and laying 25mm thick polished Kota stone flooring/staircase treads (two pieces with three groves in front of steps) over 20mm (average) thcik base of cement mortar 1:6 (1 cement 6 coarse sand) laid over and jointed with grey cement slurry including curing, rubbing, and polishing etc. complete.	285.00	1019.39	Smt	290526.15
33	Providing & fixing average 25mm thick Double polished Kota stones for shelves in cup board, seating plat form, including curing, rubbing, polishing etc. complete. (As directed by Engineer in charge)	75.00	796.84	Smt	59763.00
34	Providing & Fixing 25mm thick double polished vertical Kotah stone for (partion)urinal as par drawing including round edge moulding etc comp. (As directed by Engineer in charge)	3.96	1335.08	Smt	5286.92
35	providing & laying cement water proofing of average 60mm thick for terrace for all floors using first layer cement mortar (1:3) over an exsisting surface second layer of arranging brick bats according to slop adding suitable chemical to make water tieght & again third layer of cement mortar 1:3 on above including adding water proffing compound and finishing top with net cement slury using cement @ 2.75 kg/sq mt. making any patterns and design on the top etc. complete as directed.(As directed by Engineer in charge)	580.14	352.16	Smt	204302.10
36	Providing & Laying Broken China Mosaic flooring for plain & curve surface 12mm to 20mm of broken piece of ceramic tiles or Glazed tiles (one or more colour as directed by Engg. In charge) to be laid over cement mortar bedding of CM 1:3 to plain or and slopes and to be tempered to bring mortar cream up to and colour pigment including rounding of junctions and extending them pu to 15cms along the wall and curing with bends any patterns of designs as per deawing or directions including cleaning with water and oxilic acid using 1 kg / 1 bag of water proofing materials.	615.20	779.70	Smt	479671.44
37	Providing cement vata (10 cm X 10 cm size) quartar round in cement mortar 1:1 including neat cement finishing, watering etc. complete Respectly plaster acitivity shall be commenced only after completion of vata work.	144.00	24.28	Rmt	3496.32
38	Providing & fixing in position mild steel door with ventilation frame 40x40x6 mm and shutter frame 35x35x5mm ,75x5 mm ms flate at lock rail,10 mm square bar in vent at10 cm c/c covered with corrugated ms sheet 0.6 mm thick, including applying a priming coat of read lead paint including cleanen the surface of all dirt, dust and other foreign matter (As directed by Engineer in charge& approved drawing and design etc.)	110.00	3717.92	Smt	408971.20

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39	Providing & fixing in position mild steel window with ventilation frame 35x35x5 mm and shutter frame 25x25x5mm ,10 mm square bar grill at10 cm c/c covered with corrugated ms sheet 0.6 mm thick,including applying a priming coat of read lead paint including cleanen the surface of all dirt, dust and other foreign matter (As directed by Engineer in charge& approved drawing and design etc.)	65.89	4128.78	Smt	272045.31
40	Steel work, M.S Grill, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like	4100.00	91.08	Kg.	373428.00
41	Providing & fixing G.I rain water Spout of 65mm dia and 60cm length.	16.00	717.46	No	11479.36
42	Painting of logo on front side wall as directed by Engineer in charge and as per approved drawing.	3.00	429.65	Smt	1288.95
43	Providing and laying white glazed tiles 6mm thick in skirting, riser of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3 coarse sand) and jointed with white cement slurry.	290.89	1127.48	Smt	327972.66
44	Providing and fixing Chicken mesh jali (22 gauge) 15cm wide at the junction of 2 different surfaces of different material component at the time of plastering to prevent cracking in plaster surface as and where directed at all floors with all leads and lifts etc.complete.	190.00	38.77	Rmt	7366.30
45	Providing & Fixing Green board(2400mm x 1200mm) with soft board(1200mm x 1200mm) on wall as per the drawing & design etc. complete.	10.00	10352.50	No	103525.00
46	Providing upto floor two level precast cement concrete jali or grill 1:2:4 mix (1- Cement : 2- coarse sand : 4-graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia. Mild steel wire including roughening,cleaning, fixing and finishing in cement mortar 1:3 and curing complete.(E) 100mm thick	2.25	890.91	Smt	2004.55
47	Providing & laying Sandwich platform of maximum 700mm width : a) Sandwich type platform of top stone as 18 mm thick Granite of approved shade and sample and bottom stone as 25 mm thick single side polished kota stone with 25 mm thick screed of cement mortar 1:4 in between two stones. The stone shall be fixed by chasing in to the wall surface and providing necessary MS supports of 50x50x6mm Angle or "T" (hot dip galvanised) and embedded in between the two stones etc as per the drawing / specification and / or as instructed of EIC complete and b) 75 mm raised platform (Otli) at floor level with polished kota laid on 50mm screed of (1:2:4) and skirting of kota stone as per design and approved sample. The rate includes rounding, champhering and mirror polishing of edges, facias of granite, MS supports, all material labour and wastage, as per drawing, including necessary bonding adhesive (if required) of Araldite or equivalent. Rate shall be also inclusive of making holes & cutouts for SS sink, Oval wash basin, Piller tap / Bib tap etc. as directed by engineer in charge. (Only finished single side granite work shall be measured & paid for). (As directed by Engineer in charge& approved drawing and design etc.)	15.08	4228.90	Smt	63771.81
48	Providing and fixing of highly durable precoated Roofing Sheets having high quality color coating throughout the roof and having minimum 0.6 mm thickness .The Color Coated sheet Roofing fixed with galvanized iron /color powder coated J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or color powder coated limpet washer. filled with white lead complete as per approved sample and color as directed by engineer in charge	10.00	1098.53	Smt	10985.30

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
49	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x15 mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	10.00	1850.03	Smt	18500.30
50	Providing and Laying Rubble Soiling With Sand in Foundation Etc.complete.	134.46	1030.76	Cmt.	138595.99
51	Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (a) Foundations, footings Bases of columns and the like and Mass concrete work in footing. (Cement Level 360 Kg)	25.62	3971.27	Cmt.	101743.94
52	Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in Plinth Beams. (Cement Level 360 Kg)	30.63	5834.54	Cmt.	178711.96
53	Construction of a soak well of as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge.(The internal In-to-in dimension shall be considered for calculation)	12.72	5492.76	Cmt.	69867.91
54	Construction of a septic tank as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge. (The internal In-to-in dimension shall be considered for calculation)	18.60	5199.88	Cmt.	96717.77
55	RCC GSR (description of item for turnkey tender) Preparing structural design of RCC Under Ground / Partially under ground / above high ground level Reservoir of required capacity as per relevant I.S.s and constructing the same, including excavation in all types of soil strata (including rock) including shoring strutting if required, for loose soil / to protect from collapse due to near by traffic load, casting 100 mm thick P.C.C. leveling course in M-10, Refilling the pit with proper soil and disposing of the surplus stuff within a lead of 50 meters. Including cement plaster in CM 1:2 with approved water proofing compound to inside water touching surface to container. Including all types of labour and material charges of lowering, laying, erecting / hosting and jointing of pipe assembly to inlet, outlet overflow, washout and bye pass arrangement as per hydraulic design. Providing and fixing accessories like MS / GI Ladder, CI Manhole frame and cover, water level indicator, adequate cowl type ventilators or lantern type ventilator with stainless steel jail. B.B. Masonry chambers for valves. Providing and applying three coats of cement paint / snowcem to the out side face of structure. It also includes satisfactory water tightness test as per relevant I.S. code and painting name of scheme and capacity on the tank as per direction of engineer in charge. List of Indian Standards for Design of GSR / SUMP:-The structural design of GSR shall be in accordance with provisions relevant I.Ss. (1) I.S. 3370 part I & II 2009 or latest revised (1.1) I.S. 3370 part III & IV 1965 or latest revised (2) I.S. 456 – 2000 or latest revised. (3) I.S. 1893 – 2000 – 1984 or latest revised. (4) I.S. 875, Part – 1 to 3, 1987 or latest revised. General Specifications:- (1) Water depth in container shall be adopted as per data of tender. If water depth is not specified the suitable water depth / acceptable to field engineer in accordance with hydraulic requirement shall be adopted for capacity. (2) Shape of container (in plan) specified by in data shall be adopted in absence of data. (3) Size shall be fixed as per data.	30000.00	6.32	liter	189600.00
56	Providing and fixing washbasin with single hole for pillar tap with M.S. brackets painted white including sutting holes and making good the same but excluding fittings.(A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour including CP Brass west , MI Fisher union and Pillat tap	4.00	2144.29	No	8577.16

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57	Providing & fixing Stainless steel 316 Grab Bar 40mm dia.75Cm long rail.as directed and approved by engineer incharge.	2.00	2345.22	No	4690.44
58	Construction of ICN Chamber as peras directed and approved by engineer incharge.	1.00	4283.88	No	4283.88
59	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	40.00	186.83	No	7473.20
60	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.	4.00	3175.32	No	12701.28
61	Providing & fixing urinal of Approved quality including connecting the urinal with waste pipe, trap etc. complete (A) White earthenware flat back or corner type (including Angle cock,Waste coupling,connection pipe & waste pipe) as approved by engineer incharge.	8.00	1911.91	No	15295.28
62	Providing and fixing wash down water closet (European type W.C pan) with integral P or S trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 fine sand) (seat cover,Jet spray & Flush Tank to be measured Including) (A) Vitreous China (I) Long pattern white as directed and approved by engineer incharge.	2.00	1911.92	No	3823.84
63	Providing and fixing water closet squatting pan (Indian type W.C pan) size 580 mm (earthwork, bed concrte, foot rests,Flush Cock and trap to be measured and including paid) (A) Vitreous China (I) Long pattern white as directed and approved by engineer incharge.	8.00	1502.51	No	12020.08
64	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	15000.00	3.95	liter	59250.00
65	Providing & fixing UPVC ball valve(A) 40mm dia.	1.00	1687.71	No	1687.71
66	Providing & fixing UPVC ball valve(A) 25mm dia.	2.00	650.84	No	1301.68
67	Providing & fixing UPVC ball valve(A) 15mm dia.	2.00	440.56	No	881.12
68	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps.(B) 150mm x 100mm size P or R type	8.00	1246.92	No	9975.36
69	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 75 mm diameter with jali of the following nominal diameter of self cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	14.00	601.94	No	8427.16
70	Providing & fixing 110mm dia PVC cowl vent to pipes.	2.00	19.70	No	39.40
71	Providing & fixing 75mm dia PVC cowl vent to pipes.	2.00	30.81	No	61.62
72	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent,including cost of all materials.	95.40	148.12	Rmt	14130.65

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73	Providing laying and jointing in true line and level 25mm dia.U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	196.80	91.84	Rmt	18074.11
74	Providing laying and jointing in true line and level 15mm dia.U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	35.62	72.65	Rmt	2587.79
75	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 160 mm dia	10.00	580.75	Rmt	5807.50
76	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 110 mm dia	132.85	275.73	Rmt	36630.73
77	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(F) 75 mm dia	211.52	133.32	Rmt	28199.85
78	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement	968.00	1120.36	Smt	1084508.48
79	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete Cat. III	116.00	350.47	Pt.	40654.52
80	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	45.00	489.85	Pt.	22043.25
81	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	27.00	364.61	Pt.	9844.47

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82	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	18.00	499.95	Pt.	8999.10
83	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessoriesCat. III	54.00	241.39	Pt.	13035.06
84	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete Cat.III	4.00	449.45	Pt.	1797.80
85	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(10) 6/16Amp. Universal socket	4.00	190.89	No	763.56
86	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(7) Blank Plate Single,Cat.III	90.00	24.24	No	2181.60
87	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(8) Computer RJ-45 socket ,Cat.III	25.00	153.52	No	3838.00
88	Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.)of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (a) 20 mm	700.00	23.23	Mtr	16261.00
89	Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.) of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	300.00	32.32	Mtr	9696.00
90	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	20.00	20.20	Mtr	404.00
91	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe.(a) 2 wire 1.5 sq. mm	100.00	44.44	Mtr	4444.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
92	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(h) 2 wire 2.5 sq. mm	500.00	59.59	Mtr	29795.00
93	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(a) 2 wire 4 sq. mm	100.00	82.82	Mtr	8282.00
94	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(b) 2 wire 6 sq. mm	100.00	116.15	Mtr	11615.00
95	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(g) 4 wire 4 sq. mm	100.00	148.47	Mtr	14847.00
96	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(h) 4 wire 6 sq. mm	150.00	229.27	Mtr	34390.50
97	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(i) 4 wire 10 sq. mm (use earth wire of 4 sq. mm)	100.00	380.77	Mtr	38077.00
98	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(d) One wire 4.00 sq. mm	10.00	35.35	Mtr	353.50
99	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(f) One wire 10.00 sq. mm	10.00	87.87	Mtr	878.70
100	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed.(e) 1.50 Sq.mm 3 core round PVC sheathed	100.00	44.44	Mtr	4444.00
101	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed.(c) 1.00 Sq.mm 2 core round/ flat PVC sheathed	90.00	21.21	Mtr	1908.90
102	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction,[C] CAT - 6	300.00	45.45	Mtr	13635.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
103	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Tyne Accessories Cat-III	25.00	1081.71	No	27042.75
104	Decorative call bell Ting-tong box type 250 volts complete erected	2.00	68.68	No	137.36
105	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.),(A) Tube Light with integral driver,(ii) 20 Watts, Surge - 2KV,IP-20, conventional 4 feet,Cat-III	70.00	295.93	No	20715.10
106	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5(A) LED Lamps integral type, with PC diffuser suitable LAMP holder,(ii) 8 watts ,Cat-III	10.00	112.11	No	1121.10
107	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.),(ii) 48 to 60 Watts,Cat-III	15.00	4997.48	No	74962.20
108	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat-III	1.00	6173.12	No	6173.12
109	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing..(1) 15 A -100 A , CT Ratio 1/100	1.00	4687.41	No	4687.41

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
110	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. capacity	4.00	1961.42	No	7845.68
111	providing and erecting Miniature circuit breaker single pole 0.5A to 2A system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark	15.00	270.68	No	4060.20
112	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark , Cat.III	63.00	112.11	No	7062.93
113	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	4.00	278.76	No	1115.04
114	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity ,(A) 6 to 32 Amp. Cat.III	2.00	299.97	No	599.94
115	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	4.00	176.75	No	707.00
116	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door,(ii)6 way	4.00	2913.85	No	11655.40
117	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door,(ii)8 way (IP-43)	4.00	1152.41	No	4609.64
118	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door,(ii)12 way (IP-43)	1.00	1492.78	No	1492.78
119	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP Cat-III	12.00	1969.50	No	23634.00
120	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed,(ii) 40Amps. FP , Cat. III	1.00	2637.11	No	2637.11

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
121	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	5.00	26.26	No	131.30
122	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistance of installation.(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	1.00	4591.46	No	4591.46
123	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistance of installation.[b] For Electrical installation up to 11 KV located in other than normal soil i.e. Soft Rock, Marshy Soil etc. -Length of Pipe : 2 mtr -Back filling Compound :1 no. Bag of 25 Kg	1.00	5760.03	No	5760.03
124	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	2.00	794.87	Kg.	1589.74
125	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	15.00	368.65	No	5529.75
126	For using salt and charcoal / coke as required for pipe type earthing	15.00	171.70	No	2575.50
127	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.(B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory ,(i) with 350mm depth	1.00	14902.55	No	14902.55

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
128	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	100.00	77.77	Kg.	7777.00
129	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.(B) 3 1/2 core 35 Sq. mm (16 Sq. mm 1/2 core)	200.00	217.15	Mtr	43430.00
130	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	200.00	372.69	Mtr	74538.00
131	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.(B) 4 core 6 Sq. mm	375.00	124.23	Mtr	46586.25
132	Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	338.00	46.46	Mtr	15703.48
133	Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	338.00	62.62	Mtr	21165.56
134	Supplying following size of Light duty "A" Class G.I. Pipe & erecting as directed by Engineer-in-charge. (B) 50 mm dia	10.00	300.98	Mtr	3009.80
135	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A)50 mm outer dia	50.00	62.62	Mtr	3131.00
136	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (C)90 mm outer dia	338.00	95.95	Mtr	32431.10
137	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(B) 2 to 4 core 6 Sq. mm	4.00	38.38	No	153.52
138	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 3 & 1/2 core 35/50 Sq. mm	2.00	75.75	No	151.50
139	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 6 Sq.mm.	16.00	6.06	No	96.96
140	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm.	32.00	13.13	No	420.16
141	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (D) 35 Sq.mm.	8.00	20.20	No	161.60

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
142	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (F) 95 Sq.mm.	8.00	40.40	No	323.20
143	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq.mm	140.00	8.08	No	1131.20
144	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	32.00	10.10	No	323.20
145	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	45.00	1948.29	No	87673.05
146	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	27.00	108.07	Mtr	2917.89
147	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	45.00	108.07	No	4863.15
148	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	45.00	18.18	No	818.10
149	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM.[A] 305 mm dia 900 RPM.Cat.II	2.00	2054.34	No	4108.68
150	Providing suitable M.S. louver shutter of the Exhaust fan.	4.00	368.65	No	1474.60
151	Providing window frame suitable for erection of Exhaust fan complete covering the remaining portion of window with 15 mm. thick plywood and colour washing to match the colour of the wall.	6.00	172.71	No	1036.26
152	Supply of approved make FRP Pole having following specifications: FRP Light Pole made by CNC filament winding machine using thermoset resin polyester/epoxy resin system) having minimum 62% glass content. The pole should be in one piece and tapered round in shape, having smooth finish and should be totally free from corrosion as well as non conductive & shock proof Pole should be provided with FRP Anchor Base and it should be heavy duty, or MS Material duly painted with Epoxy paint. Pole should be flame retardant as per IS 6746. Resin used shall be UV resistance and pigmented. A highly weather resistant polyurethane coating shall be applied to the pole after applying suitable primer system that ensures proper adhesion of the paint. Minimum coating thickness shall be 80 to 100 micron. Deflection of the pole shall not exceed more than 10% of the length of pole for the given load“ Pole should be generally made as per the dimensional data, performance criteria and some interchangeability features of poles as per standard ANSI C 136.20 latest version or ASTM D 4923/01 including cable termination box with necessary accessories . The size of pole and type of installation with foundation as per manufacturer details and site requirement are as below .(3) Suitable for direct grouting & Single arm Bracket. [D] Overall length of 5 Mtr. Average Thickness: 7mm. Top/ Bottom OD Dia: 90/145 mm ± 3mm approx. approx. Weight of Pole 25 kg approx.	15.00	8252.71	Each	123790.65
153	Providing Aluminium arm bracket of having 2 sets of suitable SS304 hardware for fixing the brackets & spread of 1.2 Mtr (Suitable for 89 to 114 mm pole top dia) (A) Single arm bracket	10.00	2234.12	No	22341.20

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
154	Providing Aluminium arm bracket of having 2 sets of suitable SS304 hardware for fixing the brackets & spread of 1.2 Mtr (Suitable for 89 to 114 mm pole top dia) (B) Double arm bracket bracket	5.00	3450.16	No	17250.80
155	Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E), DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (B) 250mm x 200mm x 100mm [deep]	2.00	515.10	No	1030.20
156	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. (for 4 & 6 mtr pole)	15.00	809.01	No	12135.15
157	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.	1.00	3168.37	No	3168.37
158	Supplying & erecting Amplifier having following specification: Power Output :250W (RMS) (300W Max.) inputs : 6 Misc. & 2 Aux. frequency Response :50-1500HZ 13db Tone Controls :Cut & Boost type LED Meter :5 LED Arrays The amplifier suitable to operate 240V A.C.& 24volt D.C. (Battery) with automatic changeover from AC to Battery operation, duly protected by wrong Battery Polarity connections. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	1.00	11298.87	Each	11298.87
159	Supplying & erecting recess wall mounting speaker with 5W rated input power 3.3 K. Ohms / 3W impedance, 100 - 10000 Hz frequency response with 6 inch dia. cone type 8 ohms speakers duly fitted in ABS plastic cabinet of colour match with wall or ceiling of following size. (b)Square shaped 260 x 260mm size speaker	10.00	591.86	No	5918.60
160	Supplying, installing and testing approved make microphone for All purpose, with frequency response of 100 - 11000 Hz, having sensitivity 2.2mv / Pa & impedance 500 Ohms (LO- Z) supplied with quick detachable holder, 6 mtr twin core cable & 3 pin XLR connector. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	1.00	1284.72	Each	1284.72
161	Providing and erecting water cooler having storage capacity 80Ltr. & cooling capacity 40 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15° C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel .	1.00	41342.33	No	41342.33
162	Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel	1.00	46648.87	No	46648.87

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
163	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed ,[B] 25 Ltr / Hr with 30 Ltr. Storage Tank	1.00	13053.24	No	13053.24
164	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [C] 50 Ltr / Hr with 150 psi 2 nos booster pump	1.00	24394.53	No	24394.53
165	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1.00	1558.43	No	1558.43
166	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1.00	1275.63	No	1275.63
167	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	4.00	274.72	No	1098.88
168	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	4.00	43.43	No	173.72
169	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	2.00	317.14	No	634.28
170	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [A] For 1.5 HP 3 phase open well horizontal mono block pump set suitable for 190 LPM @ 20 mtr head suitable for 40 mm dia delivery pipe	1.00	10284.83	No	10284.83
171	Supplying & erecting approved make motor control cubical panel (Direct - on - line) made from 16 G. CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking, arrangement consisting of suitable size of ON- OFF isolator (AC - 3/23duty) main fuses, single phasing preventer, indicating lamps for R- Y - B phases, overload relay, Automatic water level controller, Ammeter, Voltmeter each with two way selector switch incoming, wires duly socket crimped, main contactor & overload relay, start - stop push buttons, to be erected on angle iron frame grouted on wall as directed. The isolator, overload relay & contactors will be of L & T, Siemens or BCH make only. (A) DOL up to 5.0 H.P.	1.00	7722.46	No	7722.46
172	Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (D)For Open well Horizontal submersible pump set for sump well(i) 1 HP to 5 HP	2.00	856.48	No	1712.96
173	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (c) 3 Core x 4 Sq. mm	200.00	146.45	Rmt	29290.00
174	Supplying rubber matting of following thickness as per IS:15652/IEC 61111 (b)4mm	2.00	1027.17	Smt	2054.34

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
175	SUPPLYING, INSTALLING, TESTING AND COMMISSIONING OF Of your premises of pipes and as per spec G.I. Pipe fittings such as Bends, Tees, reducers, rubber insertions and galvanised nuts and bolts including Flow Directions Marketing, One coat of Primer, one coat of Signal Red color 100 MM	130.00	2938.95	Mtr	382063.50
176	SUPPLYING, INSTALLING, TESTING AND COMMISSIONING OF Of your premises of pipes and as per spec G.I. Pipe fittings such as Bends, Tees, reducers, rubber insertions and galvanised nuts and bolts including Flow Directions Marketing, One coat of Primer, one coat of Signal Red color 80 MM	16.00	1960.36	Mtr	31365.76
177	Providing & Fixing Of SS, Fire Hydrant Single Headed Valve Isi Mark, With 80 Mm N.B. Flanged Inlet, Ss 316 Orifice Plate, Ss Spindle Controlled 63 Mm Dia Female Instantaneous Outlet Type. Ss Coupling, Blank Cap, Chain, Twist Release Type Lug & All Accessories Conforming To Is:5290 Including Fixing With Anchor Fastner And Flanged Tapping From Wet Riser, Complete As Required.	4.00	7109.08	No	28436.32
178	Providing and fixing 63mm Parole fire hose of approved grand conforming to IS 636 type B having crushing pressure of 37.20 kg/cm 2 of ISI marked of 15 mtr length fitting with necessary S.S 63mm delivery hose coupling as IS 903 with ISI mark bided with GI wire etc complete directed.	4.00	8886.34	No	35545.36
179	Providing & Fixing Of Of 63 Mm Dia Instantaneous Pattern Short Branch Pipe, Made From Ss , Isi Mark, 20 Mm Dia Nozzle Conforming To Is 903, Suitable For Inter Connection To Hose Pipe Coupling Complete As Required.	4.00	2346.00	No	9384.00
180	Providing & Fixing Of Swinging Type Isi Mark, First Aid Hose Reel In Red Colour Drum With 30 Mtrs Long 25 Mm Dia Heavy Duty Rubber Water Hose, 25 Mm Dia Globe Valve Stop Cock, Terminating With Ss Coupling & Nozzle Of 8Mm Outlet With Shut Off Valve Confirming To Is 8090 - 1976 Complete With Ms Socket For Tap-Off, Drum And Brackets (Including Painting) For Fixing On Wall With Anchor Fastner, Bolts & Nuts Conforming To Is:884-1969 Complete As Required.	4.00	7701.50	No	30806.00
181	Providing & Fixing Of Lockable Cabinet, Made Out Of Ms Sheet Of 20 Gauge Thickness Having Central Opening And 4 Mm Thick Glazed Glass Doors (Twonos.) To Accommodate 1 Nos Of Hose Pipe (15Mtr) And 1 No. Gm / Ss Branch Pipe Etc Suitably Marked On The Outside With The Letters "Fire Hose" Including Necessary Locking Arrangement And Shall Be Painted With One Coat Of Primer And Two Coats Of Synthetic Enamel Paint Of Approved Shade.	4.00	2843.63	No	11374.52
182	Providing & Fixing Of Hand Lever Operated Butterfly Valve (100 Mm Dia) With Ci Body And Ss Disc With Epdm Lining With All Required Accessories Like Flange, Teflon Gaskate, Gi Nut Bolts Etc.	4.00	5687.26	No	22749.04
183	Providing & Fixing Of Hand Lever Operated Butterfly Valve (80 Mm Dia) With Ci Body And Ss Disc With Epdm Lining With All Required Accessories Like Flange, Teflon Gaskate, Gi Nut Bolts Etc.	4.00	4976.35	No	19905.40
184	Site Of Ci Non-Return Valves (100 Mm Dia) As Per Is:5312 (Part 1) 1984, Wafer Type With Required Flange, Nuts, Bolts And Gaskets Etc Complete.	4.00	3585.50	No	14342.00
185	Providing & Fixing Of 2 Way Valve Isi Marked All Required Fitting Accessories.3	4.00	6565.00	No	26260.00
186	Providing & Fixing Of 450 Lpm Fire Pump With Panel Isi Marked All Required Fitting Accessories. . (One Year One Time Motor Winding Warranty)(M.R.) 7.5 Hp	1.00	62115.00	HP	62115.00
187	Site Of Gm 25Mm Dia Air Vent Valves With 25 Mm Dia. Ball Valve, Nipple And Other Required Accessories.	2.00	2979.50	No	5959.00
188	Providing & Fixing Of Fire Proof 3.5C X 50 Sq Mm Cable As Required Isi Marked All Required Fitting Accessories.	150.00	278.44	Mtr	41766.00
189	Providing ABC Type Fire Extinguisher 6 Kg Isi Marked All Required Fitting Accessories.(M.R.)	10.00	4242.00	No	42420.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
190	Providing Co2 Type Fire Extinguisher 4.5 Kg Isi Marked All Required Fitting Accessories.(M.R.)	6.00	7878.00	No	47268.00
191	Providing & Fixing Of Manual Call Point Isi Marked All Required Fitting Accessories.(Boq)	4.00	1203.72	No	4814.88
192	Suplying, Installing, Testing And Commissioning Of Fire Hooter(M.R.)	4.00	2323.00	No	9292.00
193	Providing & Fixing Of Presure Meter Switch Isi Marked.(Boq)	4.00	6516.65	No	26066.60
194	Providing and fixing to wall, ceiling & floor U.P.V.C (SCH 40) of the following Outside dia. Tube fitting and clamps, and testing including making good wall and floor etc. (c) 75mm Dia.	90.00	134.65	Mtr	12118.50
195	Providing & fixing UPVC check or non-return fullway valve(A)75mm dia.	4.00	622.26	No	2489.04
196	Providing & eraction Core Cutting up to 200mm	4.00	858.50	No	3434.00
197	Supply & installation of Conventational , Fire Alaem Control Panel Make Agni or similar	2.00	5422.69	No	10845.38
198	Providing and fixing SS Sink Glossy ASIS 304 Grade x 1mm thick with over all size 610 x 460 mm & bowl size 560 x 410 x 200 with single hole for pillar tap Fixing in sandwich platform including cutting holes and making goods the same including. necessary fixtures, connections and waste pipes	1.00	2871.43	No	2871.43
199	Construction of a Drinking water & wash facility platform 700 mm wide of 18 mm thick black granite stone with 100 mm thick 1:2:4 ordinary conc. chajjali & brick masonry supports with waste pipe as per the drawing and design etc. complete.	25.48	4656.10	Smt	118637.43
200	Drilling of bore hole in Alluvial Strata by direct Rotary Rig. 250mm / 300 mm dia	300.00	461.57	Rmt.	138471.00
201	Supply of ERW blank pipe of approved quality at site of work confirming to IS 1239-1964 200mm internal dia for housing 5.82 mm thick	250.00	2455.38	Rmt.	613845.00
202	E.R.W Plain end medium duty pipe conforming to IS 1239/1964with latest amendment in rendom length of 4 to 7 mtr. Size 200mm dia. (minium 5.82mm thickness)	50.00	2443.14	Rmt.	122157.00
203	Providing and supplying ISI make G.I pipe with coupling of following class "B" including all taxes, insurance, transportation,freigh charge,octroi,inspection charge,loading,unloading,covenyance to deppt. Storess stacking etc.completed 65mm dia. IS 1239/1990.	300.00	556.97	Rmt.	167091.00
204	Supply of gravel having size 4mm to 6 mm as directed on site	26.00	1691.75	Cmt.	43985.50
205	Supplying submersible pump set for bore of 150 mm. dia. or more having 3 phase motor capacity not more than 15 H.P discharge capacity having (a) (10 Stage) 600 to 500 L.P.M. discharge at the head 70 to 85 mtrs. suitable for 65/5 mm dia. delivery pipe Cat II	1.00	42662.40	No	42662.40
206	Supplying and erecting approved make motor control cubical panel [star delta] made from 16 G. CRCA sheet duly epoxy power paint inside and outside with hinged doors and locking with suitable size of ON - OFF isolator (AC 3 /23 duty) main fuses. Digital volt and current meter (in a single unit) with micro controller based control unit and current sensing single phasing preventer electronic overload protection, over voltage (programmable) protection and under voltage (programmable) protection, prod less dry run protection programming facility for setting of all parameter like overload current. high voltage limit, low voltage limit, dry run limit with digital indication on seven segment LED display for any fault like over load, high voltage, low voltage, dry running single crimped, electronic star delta timer , feather touch start/ stop push buttons to be erected on angle iron frame. Grouted on the wall the contractors will be of L & T , Siemens, BCH make only) (D) S/D up to 15 HP	1.00	18942.55	No	18942.55
207	Providing and erecting ISI marked PVC insulated PVC Shethed Flat flexible Submersible copper cable approved make of following Size. (f) 3 Core x 4 Sq. mm.	350.00	171.70	Rmt.	60095.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
208	Providing and fixing Pre cast exposed finished Cement Concrete block size 0.49m x 0.21m x 0.23m at wall as per architectural design, made in reach concrete mix of 1:2:4/as per mix design requirement/as approved, shall be constructed in cement mortar 1:3 (1 cement : 3 coarse sand) with providing horizontal MS 6mm dia reinforcement at every alternate layer, reinforcement should be anchored in adjoining surface with chemical like HY 150 or equivalent and finishing in grey and white cement sand mortar 1:1 and curing etc. complete, as directed by EIC. The surface of the precast block shall be fair finished/ exposed finished with 10x10mm groove in between the blocks. At all heights all places ,all floors etc all complete as per drawing, specifications, instruction & directions of the Engineer-in-charge. Payment shall be done as per drawing/laid at site, Reinforcement shall be paid in relevant item.	295.00	244.82	No	72221.90
209	Clearing and grubbing road Land including uprooting rank vegetation grass bushes shrubs sapling and trees girth up to 300mm removal of stumps of trees cut earlier and disposal of unserviceable materials (A) By MACHENICAL means In area of light jungle	1.00	53495.86	Hectare	53495.86
210	Three phase connection Charges	1.00	45000.00	L.S	45000.00
211	Fire NOC Consulting charges & Certificate process fees... etc comp	1.00	30000.00	No	30000.00
212	Fire NOC Approved Structure drawing charges	1.00	20000.00	No	20000.00
213	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wood enpluge with C.P. brass screws and washers.	5.00	859.41	No	4297.05
214	Providing and fixing C.P. brass towel rail complete with C.P.brass brackets fixed to wooden plugs with C.P. brass scews.(B) 600mm x 20mm size.	5.00	616.42	No	3082.10
215	Providing and fixing Soap Tray	5.00	101.00	No	505.00
Total Rs. :					25689116.49
SAY :					25689100

I/We am/are willing to carry out the work at.....% above/below percent
(Should be written in figures and words) of the estimated rate mentioned above.
Amount of my /our tender works out as under.

Estimated amount put to tender
Deduct..... % below
Net
In words

Estimated amount put to tender
Deduct..... % Above
Net
In words