

**Name of Work :- Construction of New Pashu Davakhana at Janod Ta.
Balasinor Dist. Mahisagar**

BILL OF QUANTITIES

Memorandum showing item of works to be carried out.

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
	Civil works items				
1	Excavation for foundation upto 1.50 mt depth including sorting out and stacking of useful materials and disposing the excavated stuff for all lead and lift for all sorts of soil.	535.75	Cum	249.69	133769.21
2	Excavation for foundation from 1.50 mt to 3.00 mt. depth including sorting out and stacking of useful materials and disposing the excavated stuff with all lead and lift for all sorts of soil.	309.88	Cum	257.95	79935.04
3	Providing and laying cement concrete work 1:2:4 (1- Cement : 2- Coarse sand : 4 graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, base or columns and mass concrete.	121.06	Cum	4352.09	526864.01
4	Providing and laying controlled cement concrete M-250 and finishing smooth with curing etc complete, including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in Foundations, footings base of columns & mass concrete.	85.27	Cum	4945.44	421717.48
5	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, pillars, posts & struts upto floor two level for G.F.	45.05	Cum	8269.60	372545.36
6	Providing and laying controlled cement concrete M-250 and finishing smooth with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C. work in Plinth beams.	43.22	Cum	6053.94	261651.28
7	Filling available excavated earth (excluding rock) in trenches plinth side of foundation etc. in layer not exceeding 20 cm in depth consolidation each deposited layer by ramming and watering etc. complete.	1136.11	Cum	136.92	155556.18
8	Filling in foundation and plinth with murrum or selected soil in layers of 20 cm thickness including watering, ramming and consolidating etc. complete.	158.39	Cum	295.15	46748.81
9	Filling in plinth with sand under floors including watering, ramming, consolidating and dressing complete.	14.83	Cum	479.80	7115.43
10	Anti-Termite System: Providing and laying of permanent piping technology anti-termite treatment before flooringwork by installing LLDP (Low linear density polyethylene) tube of 8 mm O.D. & 6.4 mm 1.D. with inbuilt pressure compensation chip every 30 cm interval in the tube, having working pressure of 2 Kg/cm ² and release rate of 1.9 ltr/hour fixed by P-clips and nails. The LLDP pipe shall be installed at the entire periphery of the building and at internal network of building at a depth of 20 to 200 mm under floor at every 2 to 3 mtr. c/c distance (adjusted as per building layout) & Ends of loop pass through a PVC elbow of minimum 32 mm ID at junction box of wall and floor level, entering into a steel reinforced grooved flexible pipe of minimum 22 mm ID leading into junction box and the loops shall terminate in junction boxes & test every junction during injecting chemicals for termite control treatment. The anti termite chemical Imidacloprid 30.5% SC mix as per IS-6313 (part III) shall be injected by the pressure pump diluted with water @ 10.5 ml/5 ltr of water at the rate of 2 Kg/sq.cm @ 5 Ltr/SMT. The contractor shall submit approved line plan for piping system and junction boxes duly approved by Engineer-in-Charge with bond of 5 year warranty. (i) Anti Termite chemical injected area (Chemical injecting incl. labour cost)	256.40	Sq.m.	134.33	34442.21
11	Providing and laying damp proof course 25mm thick cement concrete 1:2:4 (1-cement : 2 coarse sand : 4 stone aggregate 10 mm nominal size) and curing complete	30.43	Sq.m.	321.97	9797.55

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
12	Providing and laying brick work using common burnt clay building conventional type bricks having crushing strength not less than 35 Kg./Sq.cm. in super structure above plinth level and up to floor two level in cement mortar 1:6 (1 cement : 6 fine sand) including the cost of all materials and labour charges etc. complete.	39.62	Cum	4214.33	166971.75
13	Providing and laying brick work using common burnt clay building conventional type bricks having crushing strength not less than 35 Kg/sq.cm. in super structure above floor two level in cement mortar 1:6 (1 cement : 6 fine sand) for Ground Floor including the cost of all materials and labour charges etc. complete.	74.71	Cum	4496.05	335899.90
14	Providing and laying brick work using common burnt clay building conventional type bricks having crushing strength not less than 35 Kg/sq.cm. in super structure above floor two level in cement mortar 1:6 (1 cement : 6 fine sand) for First Floor including the cost of all materials and labour charges etc. complete.	27.75	Cum	4538.16	125933.94
15	Providing and laying half brick work using common burnt clay building conventional type bricks having crushing strength not less than 35 Kg/Sq.cm in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure above plinth level upto floor two level for Ground floor including the cost of all materials and labour charges etc. complete.	32.24	Sq.m.	750.76	24204.50
16	Providing and laying cement concrete 1:3:6 (1- Cement : 3- Coarse sand : 6 crushed stone aggregates 20 mm nominal size) and curing complete including cost of formwork in (A) Wall Caps / Coping	13.37	Cum	4147.33	55449.80
17	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work but excluding the cost of reinforcement in (C) Slabs landings shelves balconies, lintel -chhaja, beams, girders and cantilever up floor to level. (Lintel)	1.96	Cum	7476.02	14653.00
18	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work but excluding the cost of reinforcement in (C) Slabs landings shelves balconies, lintel-chhaja, beams, girders and cantilever up floor to level. (Lintel)	0.14	Cum	7517.57	1052.46
19	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work but excluding the cost of reinforcement in (C) Slabs landings shelves balconies, lintel-chhaja, beams, girders and cantilever up floor to level (Chajja).	2.11	Cum	6907.39	14574.59
20	Providing and laying controlled cement concrete work of M-200 and curing complete including cost of formwork and excluding reinforcement for reinforced concrete work in (E) Staircases excluding landing upto floor two level for staircase in below give fair finish surface.	2.82	Cum	8605.20	24266.66
21	Providing and laying controlled cement concrete M-200 and curing complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (D) Columns, pillars posts and struts, upto floor two level for Ground floor.	6.10	Cum	7976.10	48654.21
22	Providing and laying controlled cement concrete M-200 & curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Beam upto floor two level for G.F.	27.22	Cum	6560.96	178589.33
23	Providing and laying controlled cement concrete M-200 & curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Beam upto floor two level for F.F.	1.97	Cum	6602.50	13006.93
24	Providing and laying controlled cement concrete M-200 & curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Slabs, landing, cantilevers upto floor two level for G.F. slab for Grade slab.	40.29	Cum	4877.29	196506.01
25	Providing and laying controlled cement concrete M-200 & curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Slabs, landing, cantilevers upto floor two level for G.F. slab	43.31	Cum	6658.93	288398.26

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1	2	3	4	5	6
26	Providing and laying controlled cement concrete M-200 & curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Slabs, landing, cantilevers upto floor two level for F.F. slab	2.87	Cum	6700.47	19230.35
27	Providing I.S.I. Mark T.M.T. bar Fe-500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto all floor level.	34247.40	Kg.	77.29	2646981.55
28	Providing I.S.I. Mark T.M.T. bar Fe-500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level. Extra for additional lift of reinforcing steel for all R.C.C. work above floor two level.	2154.87	Kg.	78.34	168812.52
29	Providing and fixing M.S. Fan clamps type 1 to 16mm dia M.S. bar bent to shape with hooked ends to R.C.C. slabs curing, laying including painting the exposed portion of loops, all as per standard design complete	18.00	No.	136.75	2461.50
30	Providing & fixing 35 mm thick Double shutter flush door solid core finished with both side 1 mm thick lamination both side like 'NOVAPAN' or equivalent, of natural wood grain shade as approved by this office having telephone black granite 18 mm thick frame with double stone including fixed ventilation above lintel level as per drg and as per the instruction of Engineer in charge with necessary SS hinges and fixtures etc. complete. (For Main Door)	3.60	Sq.m.	9661.66	34781.98
31	Providing & fixing 35 mm thick Single shutter flush door solid core finished with both side 1 mm thick lamination both side like 'NOVAPAN' or equivalent, of natural wood grain shade as approved by this office having telephone black granite 18 mm thick frame with double stone including fixed ventilation above lintel level as per drawing and as per the instruction of Engineer in charge with necessary SS hinges and fixtures etc. complete.	21.30	Sq.m.	6576.11	140071.14
32	Providing and fixing 30mm thick FACTORY MADE SOLID SINGLE SIDE PRELAM PANEL PVC DOOR SHUTTER consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, and 15mm x 15mm for top and bottom rails. The M.S. frame shall have coat of steel primers of approved make and manufacture. The M.S. frame shall be covered with 5mm thick heat moulded single side prelam PVC 'C' channel of size 30 x 50mm to form stiles and 5mm thick and 75mm wide single side prelam PVC sheets	4.73	Sq.m.	2023.03	9568.93
33	Providing and fixing window having extruded aluminum colour anodized section frame main outer size 95mm x 24mm x 1.17mm (@ Wt. 0.738 Kg/mt), horizontal three track member size 92mm x 31.75mm x 1.30mm (@ Wt. 1.07 Kg/mt), vertical member of size 92mm 31.75mm x 1.50mm (@ Wt. 1.06 Kg/mt) with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm (@ Wt. of 0.456 Kg/mt), vertical member of size 40mm x 18mm x 1.29 mm (@ Wt. of 0.456 kg / mt) with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing including granite frame as per details etc. complete.	47.25	Sq.m.	4260.18	201293.51
34	Providing and fixing louvered type ventilators with powder coated aluminum fittings and fixtures and Blue glass fixing to adjustable louvers and black granite frame as per details and executed as per directed by Engineer in charge.	2.52	Sq.m.	13733.98	34609.63
35	Providing and fixing M.S. hollow section box grills of required pattern to frames of windows or opening etc. with M.S. section of 2.5" x 2.5" square of Tata of jindal section having finish with G.I. coated finish by zinc oxide and oil paint including all labour and material as per directed by engineer in charge.	308.91	Kg.	222.20	68639.80
36	Providing and fixing M.S. grills of required pattern to wooden / Marble / Granite / Stone frames of windows etc. with M.S. flats at required spacings and frame around, square or round bars with round headed bolts and nuts or by screws (A) Ornamental Grill.	1345.52	Kg.	164.63	221512.96
37	Providing and laying 24" x 24" vitrified 8 mm thick tiles flooring over 20mm (average) base of cement mortar 1:6 (1 cement : 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finished with flush pointing & cleaning the surface etc. complete for anti skid.	193.74	Sq.m.	1401.38	271503.36

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
38	Providing and laying Ceramic tiles 6mm thick 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. (antiskid)	6.65	Sq.m.	981.57	6527.44
39	Providing and laying Marbo Granite tiles 8 to 10 mm thick, 24" x 24" in skirting, risers of steps and dedo on 10mm thick cement plaster 1:3 (1 cement : 3 coarse sand) and jointed with white cement slurry.	99.31	Sq.m.	1195.02	118677.44
40	Providing and laying polished Kota stone slab flooring over 20mm (average) thick base of cement mortar 1:6 (1-cement : 6 coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	23.12	Sq.m.	1019.39	23568.30
41	Providing and laying 18 mm thick machine cut, free edges, machine polished Black Granite tread and risers in single piece with 1 cm nosing and necessary grooves on treads etc. complete.	49.63	Sq.m.	3325.93	165065.91
42	Providing and laying broken china mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall, clearing with water and oxalic acid etc. as directed.	287.21	Sq.m.	779.70	223937.64
43	Providing and laying BBCC of 75mm thick layer in CM (1:3) including spraying two coat of water proofing chemical with selected brand by enginner in charge i.e. perma or other with leveling complete for ready base of china mosaic treatment.	284.85	Sq.m.	626.20	178373.07
44	Providing and cement vata (10cm x 10cm size) quarter round in cement mortar 1:1 including neat cement finishing watering etc. complete.	127.82	Rmt.	24.28	3103.47
45	Providing 20 mm thick double coat mala cement plasteron interior brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in roughfinishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete.	679.79	Sq.m.	283.95	193026.37
46	Providing 15mm thick cement plaster in single coat on brick/concrete walls for interior plastering upto floor two level and finished even and smooth in cement mortar 1:4 (1-cement : 4 sand) for ceiling.	299.10	Sq.m.	201.44	60250.70
47	Providing 20mm thick sand faced cement plaster on walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.	894.57	Sq.m.	374.87	335343.70
48	Providing throating or plaster drip and moulding to R.C.C. Chhajja.	56.33	Rmt.	43.05	2425.01
49	Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	541.48	Sq.m.	40.59	21978.67
50	Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth. (Ceiling Putty)	299.10	Sq.m.	42.77	12792.51
51	Wall painting two coats with plastic emulsion paint of approved brand and manufacture on wall surfaces to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	541.48	Sq.m.	82.85	44861.62
52	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing surface to remove all dirt, dust and remains of loose powdered materials etc. complete.	1374.09	Sq.m.	120.26	165248.07
53	Wall painting two coats with plastic emulsion paint of approved brand and manufacture on wall surfaces to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth on ceiling.	299.10	Sq.m.	85.03	25432.47

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1	2	3	4	5	6
54	Providing, laying and jointing in true line and level I.S.I. mark 40mm dia. U.P.V.C pipe (Sch-40) for cold water including fitting as approved by Engineer in charge. Pipe shall be fixed on the wall with held of clamp at every two meter c/c or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent including cost of all materials.	31.00	Rmt.	148.12	4591.72
55	Providing, laying and jointing in true line and level I.S.I. mark 32mm dia. U.P.V.C pipe (Sch-40) for cold water including fitting as approved by Engineer in charge. Pipe shall be fixed on the wall with held of clamp at every two meter c/c or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent including cost of all materials.	54.60	Rmt.	119.15	6505.59
56	Providing, laying and jointing in true line and level I.S.I. mark 15mm dia. U.P.V.C pipe (Sch-40) for cold water including fitting as approved by Engineer in charge. Pipe shall be fixed on the wall with held of clamp at every two meter c/c or shall be concealed as directed including necessary fitting etc. including testing of pipe and joints and fixing the same with adhesive solvent including cost of all materials.	26.00	Rmt.	72.65	1888.90
57	Providing and fixing concealed center point to wall, ceiling and floor I.S.I. mark C.P.V.C. (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (F) 50 mm dia.	22.00	Rmt.	660.58	14532.76
58	Providing and fixing concealed center point to wall, ceiling and floor I.S.I. mark C.P.V.C. (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. (B) 25 mm dia.	15.00	Rmt.	253.82	3807.30
59	Providing, laying and jointing in true line and level I.S.I. mark 110mm diameter U.P.V.C. SWR Type B pipe confirming to IS 13592 -1992 with one end plain and other end socketed with rubbering & fitting confirming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110mm diameter x 149mm length x 145mm high at every 2000mm center to center or shall be concealed in wall as directed including necessary fitting such as bends, shoes etc. including testing of pipe and joints and jointed with adhesive solvent cement including cost of all materials.	63.00	Rmt.	876.90	55244.70
60	Providing and fixing screw down bib taps of following size (A) Brass chromium plated screw down bib tap (i) 15mm dia. as approved by Engineer in charge for all floors.	16.00	No.	186.83	2989.28
61	Providing and fixing screw down bib taps of following size (A) Brass screw down bib tap polished bright (ii) 20mm dia. as approved by Engineer in charge for all floors.	8.00	No.	214.81	1718.48
62	Providing and fixing pillar tap, capstan head screw down high pressure with screw, shanks and back nuts (B) 20mm dia. as directed by Engineer in charge.	8.00	No.	354.69	2837.52
63	Providing and fixing chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete. (ii) 25mm dia. as directed by Engineer in charge.	6.00	No.	263.77	1582.62
64	Providing and fixing Gun metal check or non return full way wheel valve. 40 mm dia.	3.00	No.	663.43	1990.29
65	Providing and fixing Gun metal check or non return full way wheel valve. (C) 25 mm dia.	3.00	No.	420.63	1261.89
66	Providing and fixing Kitchen sink with C.I. or M.S. brackets, painted white including cutting holes in walls and making good the same but excluding fittings. (C) Vitreous China Sink (i) 600mm x 450mm x 150mm size.	2.00	No.	2326.66	4653.32
67	Providing and fixing wash basin with single hole for pillar tap with C.I. or M.S. brackets painted white including cutting holes and making good the same but excluding fittings. (A) Vitreous china (ii) Flat Back washbasin 550 mm x 400mm size. (i) In white colour.	3.00	No.	1451.48	4354.44

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1	2	3	4	5	6
68	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden plugs with C.P. brass screws.(B) 600 mm x 20 mm size.	5.00	No.	616.42	3082.10
69	Providing and fixing C.P. brass shower rose with 15mm or 20mm inlet.(A) 100mm dia. each	2.00	No.	282.16	564.32
70	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 wooden plug with C.P. brass screws and washers.	3.00	No.	859.41	2578.23
71	Providing and laying wash down water closet (European type Wall hung W.C. pan) Florentine series FLS-WHT 0111B including providing and fixing metropole flush cock seat cover, jet wash etc. complete unit of jaquar branch (or equivalent) including installing and fitting as per manufacturers standards by skilled trained plumber including testing etc. complete quality and brand as approved by Engineer in charge.	3.00	No.	9866.69	29600.07
72	Providing, laying and jointing in true line and level I.S.I. mark 160mm diameter U.P.V.C. (Type B) confirming to IS 13592 -1992 with one end plain and other end socketed with rubbering & fitting confirming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160mm diameter x 210mm length x 196mm high at every 2000mm center to center or shall be concealed in wall as directed including necessary fitting such as bends, shoes etc. including testing of pipe and joints and jointed with adhesive solvent cement including cost of all materials.	37.00	Rmt.	834.38	30872.06
73	Providing and fixing PVC SWR Nahni Trap IS 14735 for drain with jail of the following nominal diameter of self cleansing design with C.I. screwed down of hinged grating including the cost of cutting and making good the walls. (i) 100mm dia.	9.00	No.	586.27	5276.43
74	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 300 mm size (inside) with standard weight (i) square mouth traps (A) 100 mm x 100 mm size P type.	5.00	No.	1292.19	6460.95
75	Providing and laying (two level or slopes) and jointing with stiff mixture of cement mortar in proportion 1:1 salt glazed stone ware pipes following nominal internal diameter including testing of pipes and joints etc. complete. 150 mm dia.	20.00	Rmt.	317.46	6349.20
76	Constructing brick masonry chamber for under ground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35 Kg/cm ² in C.M. 1:5 C.I. cover with frame (light duty) 455 mm x 610 mm. internal dimensions, total weight of cover with frame to be not less than 38 Kgs. weight of cover 23 Kg. and wt. of frame 15 Kg) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm. size) foundation concrete 1:5:10 inside plaster 15 mm. thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls & a bed concrete etc. complete. (i) inside dimension 455mm x 610 mm and 450mm deep for single pipe line.	6.00	No.	2932.93	17597.58
77	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:5 (1-Cement : 5-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement : 2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.) (A) With 230mm thick walls of brick masonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1-Cement : 5 Coarse sand) (1) A type depth 0.90 Metre for 150mm diameter sewer.	1.00	No.	11042.74	11042.74
78	Providing erecting and fixing double coated Syntex or equivalent PVC (I.S.I.) mark water tank of required capacity each with all necessary fittings & connection etc. comp on terrace.	3000.00	Litre	3.95	11850.00

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1	2	3	4	5	6
79	Providing and fixing ball cock of approved quality as directed. (A) Copper metal (i) 25 mm dia.	2.00	No.	132.89	265.78
80	Providing and fixing 90 cm high Stainless steel railing made from anticorrosive S.S. pipe of 50 mm dia (16 Gauge) as hand rail with S.S. 38 mm dia. (16 Gauge) as a vertical support fixed in RCC slab at 1.2m c/c including three horizontal S.S. pipes of 25 mm dia. (16 gauge) at equal distance fixed by 18.75 mm dia (16 gauge) S.S. pipe including accessories as per detailed drawing as directed etc. complete.	10.70	Rmt.	3162.31	33836.72
81	Supplying and fixing the LED acrylic type name panel board as per design approved by Engineer incharge.	2.70	Sq.m.	7070.00	19089.00
82	Providing and laying sandwich type kitchen platform of size 2.10 x 0.76 x 0.76 m and respected length with dhar polish or moulding having base 4" and support & base with marble or kota as per site requirement also loft and base finish with glaze tile and top with selected shed of marble or granite with gas pipe provision and sink including all fittings, material and labour as per directed by Engineer incharge.	8.21	Sq.m.	23811.76	195494.55
83	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (A) By manual means in area of light jungle.	0.23	Hect.	84256.00	19378.88
84	Providing & fixing Co2 type portable ABC Dry Powder type ABS Fire extinguisher capacity 4.5 Kg. discharge range 3mt. timing 60 to 180 sec. standard approved IS code No. 2878:2004.	2.00	No.	3500.00	7000.00
85	Providing and fixing M.S. grill entrance gate of predetermine design including all material like hinges, roller, stopper, rail head, handle etc having coat of red lead and painting with selected colour guide by engineer incharge.	11.34	Sq.m.	4341.59	49233.63
86	Providing and fixing precast Rubber dye / steel dye inter locking concrete block 60mm thick with grade of concrete M-300 pneumatic compressed / vibrated mechanically and as per approved design confirming to IS 15658 : 2006 including 35 mm sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. complete.	416.00	Sq.m.	706.80	294028.80
87	Drilling of 215mm dia. bore in over burden strata (0-30) including lowering and fixing of 175 mm nominal dia UPVC pipe/175 mm dia ERW pipe upto required depth and further drilling of 165mm dia bore hole in rocky strata by DTH rig.	75.00	Mtr	343.00	25725.00
88	Providing & supplying 175mm nominal dia. UPVC "CS" type pipe as per IS:12818 and as per detailed technical specification.	30.00	Mtr	906.00	27180.00
89	Electric motor driven borewell submersible pump set conforming to I.S. 8034 and motor conforms to IS-9283 working at 3 phase 400/440 volt 50 C/S A.C. supply & 2900 R.P.M. discharge 240 LPM and 72 mtr Head, 7.5 hp Cat. 4.0	1.00	Set	18756.00	18756.00
90	SITC of D.O.L starter up to 7.5 H.P.	1.00	Set	8383.00	8383.00
91	Providing & supplying Flat PVC cable size 4.0 sq.mm as per IS 694 with BIS mark and as per detailed technical specification.	60.00	Mtr	87.00	5220.00
92	Heavy duty, 50 mm dia. G.I. Column pipe both end threaded having length approximate 3 mtr. confirming to IS 1239 (Part-1) with coupling at one end.	60.00	Mtr	537.00	32220.00
93	Providing, supplying and fitting ISI mark CI D/F Sluice Valves as per IS:14846 (Latest Edition) of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. PN-1 With hand wheel /cap operated (PD type short body) 50 mm	1.00	No.	2316.00	2316.00
94	Providing, supplying & fitting ISI mark CI D/F Reflux Valves as per IS:5312 (Latest Edition) of following class and diameter including all taxes, insurance, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to departmental stores, stacking etc. complete. Reflux valves PN 1.0 IS 5312 with ISI mark 50 mm	1.00	No.	3307.00	3307.00

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
95	Lowering of Submersible motor pump set complete with required nos and size of Column pipe 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 pumpset and pipe assembly filled up with water with trail testing..	1.00	Job	2500.00	2500.00
96	Clamps made from MS plate with 3 holes on either side with nuts & bolts of standard make and suitable size 450 mm x 65 mm x 10 mm flat suitable to 50 mm dia. pipe.	1.00	No.	560.70	560.70
97	Supply of TOP & BOTTOM accessories of 50 mm dia.	1.00	No.	1475.00	1475.00
98	R&B Approved make ELCBs / RCCBs conforming to IS:12640 and having sensitivity of 30 mA and Short Circuit with stand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. 40 Amp. Cat.III	1.00	No.	2611.00	2611.00
99	Electrical wiring & fitting charges of electric meter, 40Amp fuse, control panel etc. including erection of the above items on wooden board, cost of material and all liasioning work for getting electric connection from concerned Vij Company.	1.00	Job	2500.00	2500.00
100	Pumping test of the tubewell by sub mersible pump of adequate capacity for 165 mm DTH bore.	1.00	Job	17250.00	17250.00
101	Providing and fitting readymade prefabricated portable chemicalized ferro concrete mini panel having outer size 110 x 50 x 190 cm with necessary fitting for electric panel mounting complete as per detailed specification and drawing.	1.00	Job	12187.50	12187.50
102	Three Phase GEB power charges.	1.00	Job	14000.00	14000.00
103	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg./cm ² in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm internal 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 slab 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.(ii) Inside dimensions 500mm x 700 mm and 450mm deep for pipe line with one or two inlets.	1.00	No.	3660.76	3660.76
104	Providing and laying C.I. steps 50cm x 15cm. 2.25cm. and Ci cover suitable frame with necessary fixtures and joint and finish complete. (Including sump step in staggered form including two coat of oil paint)	1.00	No.	6303.41	6303.41
105	Providing and fixing of submersible motor of required quality and with control panel of 1.00 HP etc complete with having outlet 25 mm dia.	1.00	No.	9595.00	9595.00
106	Providing & fixing to wall, ceiling and floor galvanized mild steel tubes (medium grade) of the following nominal bore, tube fittings and clamps including making good the wall, ceiling and floor (E) 40mm.	15.00	Rmt.	608.35	9125.25
107	Providing and laying cement concrete 1:5:10 (1-Cement : 5 fine sand :10 graded stone aggregate 40mm nominal size) bedding for stoneware pipes of following internal diameters with necessary formwork and curing complete.(B) 150mm dia. (166mm avg. bed thickness)	18.00	Rmt.	213.71	3846.78
108	Extra over item 24.1 for providing salt glazed stoneware fittings. (i) Bends of required degree (any radius) of following nominal diameters. (B) 150mm dia.	5.00	No.	63.79	318.95
109	Providing and laying marble chips skirting (Terrazo) or dedo rubbed, and polished to Granolithic finish top layer 6mm thick with white, black or white and black marble chips of size from smallest to 4mm nominal size laid in cement marble powder mix 3:1 (3- cement : 1 marble powder by weight) in proportion of 4:7 (4-cement marble powder mix : 7-marble chips by volume) 20mm thick with under layer 14mm thick cement plaster 1:3 (1-cement : 3-coarse sand) (A) Dark shade pigment with ordinary cement (In top layer only)	40.77	Sq.m.	653.09	26626.48

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
110	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead (B) Dense or Hard soil.	15.40	Cum	182.90	2816.66
111	Providing and laying controlled cement concrete M-150 for curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, base of columns and mass concrete.	3.10	Cum	4022.70	12470.37
112	Double half brick thick honey comb brick work with common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.cm. (i) In cement mortar 1:4 (1 cement : 4 coarse sand)	69.04	Sq.m.	323.00	22299.92
113	Providing and fixing C.I. Manhole cover 0.60 M. x 0.45M. size having weight not less than 35 Kg.	2.00	No.	958.17	1916.34
114	Providing, laying (to level or slopes) and jointing reinforced concrete light duty non-pressure pipes I.S. class NP-2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (B) 150mm	49.00	Rmt.	257.20	12602.80
115	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35 Kg/Cm ² in C.M. 1:5 C.I. cover with frame (light duty) 455mm x 610mm internal 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 slab 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. (iii) Inside dimensions 600mm x 850 mm and 450mm deep for pipe lines with three or more inlets.	2.00	No.	7180.44	14360.88
116	Providing, laying (to level or slopes) and jointing reinforced concrete light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (C) 250mm	30.00	Rmt.	359.80	10794.00
117	Filling in foundation and plinth with brick bats, chhara in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	6.20	Cum	621.50	3853.30
118	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 screwed down or hinged grating including the cost of cutting and making good the walls.	10.00	No.	574.60	5746.00
119	Providing, fixing and erecting steel shed including M.S. G.I. pipe (class-B), framing of structure with hollow section and painting with two coats of oil paint including priming coat. Rates including with necessary fabrication work including cutting, welding, making holes by drilling machine & fixing in line and level of all structure including cost of all laboures, fixtures, fastening and equipments etc. complete.	114.56	Sq.m.	2020.00	231411.20
120	Office Table :- 18mm thick three layer pre laminated particle board Work with PVC edge band 2mm thick wrapped around the top, decorative aluminium bidding in top and modesty including all necessary elements with necessary features and fastning finish all as per directed by Engineer in charge. 6 FT Office Table (Dimension :- 180 cm x 90cm x 75 cm) with suitable brand.	5.00	No.	23000.00	115000.00
121	Revolving Chair :- Full-Back Executive Office Chair upholstered in bonded leather and PVC, Padded seat and back for all-day comfort and support, Pneumatic seat-height adjustment; 360-degree swivel; smooth-rolling casters and having overall dimension 73.9D x 66.5W x 115.6H centimeters with Armrest (Brown) with selected brand.	5.00	No.	14750.00	73750.00
122	File Rack :- lack adjustable 5-Shelf Shelving Unit Storage Rack Utility Rack Garage Shelves Display Rack Steel Boltless Rivet Rack, 60 inches Height 1-Pack ({5 - SECTION } 5'[H] x 2'[L] x 1'[D]) with suitable brand.	10.00	No.	7700.00	77000.00

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
123	Visiting Bench :- Chair Three Seater Waiting Area Chair Reception Chair 325-350 Kg Weight Handling Capacity. Durable Parts and support, Our Chairs have whole welded connections. Product dimensions: Length (70 inches), Width (23 inches), Height (31 inches) Color : Shining Silver, Material : Mild Steel (Iron), Finish: Chrome Finish, Style: Contemporary	4.00	No.	10700.00	42800.00
124	Steel Stool :- Office Stainless Steel Stool having minimum overall dimension 35.6D x 35.6W x 76.2H Centimeters, made with S.S. leg and rubber pad / bushing with suitable brand which will select by engineer in charge.	13.00	No.	1800.00	23400.00
125	Chair :- S.S. Chair for Office having seat and back with selected cushion, Fabric, Pattern, PU with arm rest and minimum overall dimension 78.7D x 41.9W x 78.7H Centimeters with suitable brand which will select by engineer in charge.	15.00	No.	2600.00	39000.00
126	Stainless Steel Office Almirah : Supply and installing Portable Modern double Door steel almariah with nearer 30 kg wt having dimension 36 x 18 x 78.5 inch made from SS, Eco friendly and UV resistant in grey color having minimum 4 partition for file rack and other department as per selected and directed by Engineer incharge.	7.00	No.	15000.00	105000.00
127	Providing, supplying and fixing the AC of 1.5 tonne of standard company i.e. Blue star, Panasonic or equivalent as per manufacturer specification and select by Engineer incharge	3.00	No.	45000.00	135000.00
128	Providing and laying burnt brick masonry for super structure with ordinary portland cement mortar 1:5 proportion including providing scaffolding racking out joints curing etc. complete for all leads and lifts. (Conventional Bricks) upto floor two level	38.37	Cum	4526.81	173693.70
129	Providing 20 mm thick sand faced cement plaster with Gutka on walls upto height 10 meters above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1 cement : 3 sand) and 8mm thick finishing coat of C.M. 1:1 (1cement :1 sand) etc. complete including painting with two coats of water proof acrylic emulsion paint to give an even shade.	560.02	Sq.m.	345.75	193626.92
130	Providing and laying and fixing 50 mm thick expansion joint by hydro cell semi rigid UV resistance with high performance laminated closed cell polythene foam joint filler in sheet foam as directed etc. complete.	9.59	Sq.m.	1491.03	14298.98
131	Providing and fixing Barbed wire for Y shape fencing on existing coping / wall, Fencing made of galvanized steel wire of including all material like angle post fixing in wall/coping of a size ISA 45 x 45 x 4 mm (1.5m C/C) with 150 x 150 x 3 mm base plate and anchor bolts M-12 - 4 nos on each plate and 4 nos of barbed wire on each side including ring (9.38 kg/100 Rmt), Plate also covered by CC if required and all section having coat of red lead and painting with selected colour guide by engineer incharge.	130.10	Rmt.	1179.58	153463.36
Electrical Items					
132	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. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete. Cat. III	43.00	Point	485.81	20889.83

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
133	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. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete. Cat. III	17.00	Point	674.68	11469.56
134	Point wiring for Tissino / Modular secondary 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, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	8.00	Point	167.66	1341.28
135	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. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete. Cat. III	7.00	Each	510.05	3570.35
136	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 accessories. Cat. III	26.00	Each	257.55	6696.30
137	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.(3) Two Pin/RJ-11 Telephone Socket [A] For One Gang Cat. III	6.00	Each	160.59	963.54
a	(7) Blank Plate Single Cat. III	21.00	Each	25.25	530.25
b	(8) Computer RJ-45 socket Cat. III	10.00	Each	160.59	1605.90
c	(9) 16 Amp. SP one way switch Cat. III	9.00	Each	180.79	1627.11
d	(10) 6/16Amp. Universal socket Cat. III	9.00	Each	199.98	1799.82
138	Providing and erecting ISI mark Medium class RIGID PVC PIPES 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	192.00	Mtr	24.24	4654.08
a	(c) 32 mm	96.00	Mtr	54.54	5235.84
139	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 (A) With medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	374.00	Mtr	82.82	30974.68
140	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 (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 4 sq. mm	125.00	Mtr	112.11	14013.75
a	(h) 4 wire 6 sq. mm	40.00	Mtr	260.58	10423.20
141	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	9.00	Mtr	46.46	418.14
142	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	150.00	Mtr.	47.47	7120.50

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
143	Supplying & erecting approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections.[A] Conductor Size 0.5 mm (a) Unarmoured (2) Two Pairs	90.00	Mtr.	20.20	1818.00
144	Providing & erecting main Distribution (MDF) indoor type, back mounted frame as per DoT standard approved with krone strips (a) Suitable for 10 pair	1.00	Each	994.85	994.85
145	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 Type Accessories Cat. III	5.00	Each	1133.22	5666.10
146	Decorative call bell Ting-tong box type 250 volts complete erected	1.00	Each	71.71	71.71
147	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 (iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat. III	21.00	Each	373.70	7847.70
148	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) 5 to 8 watts Cat. III	14.00	Each	112.11	1569.54
149	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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (ii) 11-15 watts, Surge-2 KV Cat. III	15.00	Each	427.23	6408.45
150	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. (i) above 36 to 48 watts Cat-III	7.00	Each	3345.12	23415.84

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
b	(C) Post Top Lantern LED fitting comprises of finish cast aluminum spigot and spun aluminum canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting driver and accessories wired upto terminal block.IP 65 (i)20-30W Cat-II	2.00	Each	3475.41	6950.82
151	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	Each	6173.12	6173.12
152	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	0.40	Rn. Mtr.	1961.42	784.57
153	Supplying KITKAT pattern porcelain cut-out fuse with base of following current capacity erected on existing block board.(v) 100 A. 500 V.	3.00	Each	278.76	836.28
154	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 Cat III	9.00	Each	270.68	2436.12
155	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	18.00	Each	112.11	2017.98
156	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	4.00	Each	299.97	1199.88
157	Providing & erecting 415V MCB Four Pole Switch for Lighting Load (B curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (A) 6 to 32 Amp. Cat III	2.00	Each	578.73	1157.46
158	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat III	3.00	Each	668.62	2005.86
b	(c)63 Amp. Cat III	3.00	Each	737.30	2211.90
159	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 (i)4 way	1.00	Each	2339.16	2339.16
b	(ii)6 way	1.00	Each	2913.85	2913.85
160	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	3.00	Each	1969.50	5908.50
b	(ii) 40Amps. DP Cat III	3.00	Each	2235.13	6705.39

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
161	Supplying & erecting earth pit of minimum bore dia.150mm size approved make 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 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm 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. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. (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	Each	4591.46	4591.46
162	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 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.(A) locally fabricated panel board (i) with 350 mm depth	0.80	Sq. Mtr.	11466.53	9173.22
163	Supplying & erecting XLPE(IS:7098) (I)-88 ISI unarmoured Aluminium cable 1.1 KV.grade to be erected as directed of following size. (B)4 core 4 Sq. mm	146.00	Mtr.	75.75	11059.50
164	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 (A) 3 1/2 core 25 Sq. mm (16 Sq. mm 1/2 core)	12.00	Mtr.	183.82	2205.84
165	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.(A) 2 to 4 core 2.5 / 4 Sq. mm	18.00	Each	33.33	599.94
166	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.(A) 3 & 1/2 / 4 core 25 Sq. mm	2.00	Each	66.66	133.32
167	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) 1.5/ 2.5/4/6 Sq.mm	72.00	Each	6.06	436.32
b	(C) 16/25 Sq.mm.	8.00	Each	15.15	121.20
168	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.	25.00	Mtr.	55.55	1388.75

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
169	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	28.00	Mtr.	62.62	1753.36
170	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy erected on existing hook or clamp with earthing. [Make shall be approved by Engineer in charge]	17.00	Each	1596.81	27145.77
171	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.	17.00	Mtr.	108.07	1837.19
172	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.	17.00	Each	108.07	1837.19
173	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	17.00	Each	18.18	309.06
174	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame.250mm with 1350 RPM Cat.II	3.00	Each	1366.53	4099.59
175	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.(A) 300mm x 200mm x 100mm [deep]	1.00	Each	898.90	898.90
b	(C)150mm x 125mm x 100mm [deep]	9.00	Each	476.72	4290.48
176	Supplying and erecting B class Galvanized iron pipe having smooth finished bore of the pipe on both ends erected nuts and bolts along the pole / wall shaping the pipe as per site requirement. Pipe dia as following.(B) 32 mm dia	7.00	Mtr.	215.13	1505.91
177	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	Each	3168.37	3168.37
178	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (C) 4 pole 440V 16 Amp.	1.00	Each	857.49	857.49
179	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	Each	1275.63	1275.63
180	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	Each	1558.43	1558.43

It. No.	Description of Item	Qty.	Unit	Rates in Figure	Total Amount
1	2	3	4	5	6
181	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	2.00	Each	317.14	634.28
182	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	3.00	Each	274.72	824.16
183	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	3.00	Each	43.43	130.29
			TOTAL Rs.		11786518.49

i.e. Rs. One Crore Seventeen lakhs Eighty Six thousand Five hundred Eighteen Rupees and forty nine paisa only.

I/We am/are willing to carry out the work @ _____ % 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	Estimated amount put to tender
Deduct.....% below	Add.....% Above
Net Rs. _____	Total Rs. _____
In words _____	In words _____

Note :-

1. The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.
2. The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
3. GST and Income tax TDS will be deducted at a source while making payments of bills.
4. In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C, Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.
5. **The Contractor will have to submit the all required mix design at his own cost before execution as directed and to be approved from the Engineer in charge.**

Above all items of "Schedule-B" with Item Description, Unit, Rate & Amount have verified by me and found order.

Deputy Executive Engineer
Panchayat (R & B) Sub Division,
Balasinor

Sr. Divisional Account Officer
Panchayat (R & B) Division,
Lunavada

Executive Engineer
Panchayat (R & B) Division,
Lunavada