

# DRAFT TENDER PAPER



**Name of work :-**

**Construction of Supritendent Quarter at Children Home,  
Himatnagar Dist. Sabarkantha**

**DISTRICT :-      **Sabarkantha****

**Rs. :-      3085811.62**

Sr No.	Taluka	Name of Work	Amount Put to Tender
1	<b>Himmatnagar</b>	Construction of Supritendent Quarter at Children Home, Himatnagar Dist. Sabarkantha	3085811.62
TOTAL:-			3085811.62

GOVERNMENT OF GUJARAT  
ROADS AND BUILDING DEPARTMENT  
SACHIVALAY, GANDHINAGAR

**Name of work :-**

**Construction of Supritendent Quarter at  
Children Home, Himatnagar Dist.  
Sabarkantha**

**Bill of Quantities**

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
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.(B) Dense or Hard soil	67.00	Cum	157.08	10524.36
2	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.	67.00	Cum	136.92	9173.64
3	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete	12.00	Cum	481.81	5781.72
4	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	35.00	Cum	294.39	10303.65
5	Providing and laying controlled cement concrete M.150 for curing complete including cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings,Base of columns and Mass concrete	30.10	Cum	4543.99	136774.09
6	Providing and laying controlled cement concrete M.250 and curing complete including cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.	37.00	Cum	4782.56	176954.72
7	Providing and laying controlled cement concrete M250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, pillars posts and struts Column Up to Plinth Level	4.00	Cum	7954.76	31819.04
8	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- Machine Crushed stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	3.10	Cum	3092.52	9586.81
9	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 for Ground and Plinth Beams	12.00	Cum	5994.35	71932.20
10	Providing and laying controlled cement concrete M.200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, Pillars posts and struts, For All Floors.	10.00	Cum	7823.44	78234.40

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
11	Providing and laying controlled cement concrete M.200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Beams For All Floors.	6.00	Cum	6173.76	37042.56
12	Providing and laying controlled cement concrete M.200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Slab for All Floors.	10.00	Cum	6927.83	69278.30
13	Providing and laying controlled cement concrete M.200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Lintels For All Floors.	2.00	Cum	6365.06	12730.12
14	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete for All Floor	7305.00	Kg.	77.29	564603.45
15	Brick work using Common Burnt Clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in Super structure Above plinth level up to All Floor levels in Cement Mortar 1:6 (1- Cement : 6 -fine sand) (Conventional)	51.00	Cum	4495.99	229295.49
16	Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Superstructure above plinth level upto All Floor level in Cement mortar 1:4 (1- Cement : 4 -coarse sand ) (Conventional).	34.00	Sqmt	684.20	23262.80
17	Providing & Fixing Chicken mesh for joint between brick work & RCC work fixing with nail & GI washer as per director in charge	27.00	Sqmt	173.72	4690.44
18	Providing 15mm thick cement mala plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering and finished even and smooth fininshing with a floating coat of neat cement slurry in (i) Cement mortar 1:3 (1-cement:3-sand), 10x10 mm groves etc. Complete for All Floors.	311.00	Sqmt	241.38	75069.18
19	Providing 10mm thick cement mala plaster in single coat on brick/concrete walls for interior plastering and finished even and smooth fininshing with a floating coat of neat cement slurry in (i)Cement mortar 1:3 (1-cement:3-sand). Complete for All Floors.	103.00	Sqmt	215.30	22175.90
20	20mm thick sand faced cement plaster with Gutka Finish on walls upto height 15 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) with 5mm grooves, etc. complete.	186.00	Sqmt	321.10	59724.60

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
21	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.	378.00	Sqmt	40.59	15343.02
22	Wall painting (three coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	275.00	Sqmt	125.52	34518.00
23	Ceiling painting (three coats) with plastic emulsion paint of approved brand and manufacture on ceiling and soffits of slab surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	103.00	Sqmt	131.02	13495.06
24	Finishing wall with weather proof exterior emulsion paint (two coats) with Damp Proof Coating (one coat) on wall surface to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete	222.00	Sqmt	93.93	20852.46
25	Providing and laying polished Blue 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	4.00	Sqmt	1019.00	4076.00
26	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 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 guidlines of IRC : SP 63-2018 etc. Complete.	19.00	Sqmt	706.93	13431.67
27	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismentaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for DARK shade	55.00	Sqmt	1346.35	74049.25
28	Providing and laying Vitrified 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	8.00	Sqmt	1195.02	9560.16

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
29	P & L Mate Finished Antiskid Ceramic 10 mm thick tile flooring over 20 mm (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 finised with flush pointing & cleaning the surface etc. complete	4.00	Sqmt	1266.54	5066.16
30	Providing and laying coloured glazed tiles of the size 300 mm x 450 mm x 8 mm in skirting, risers of steps and dedo on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) & jointed with white cement slurry.	40.00	Sqmt	1487.88	59515.20
31	Providing and fixing Machine cut, Free edges, Mirror Polished Granite stone slab flooring 18mm thick laid on 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) for Trade & Riser including Half Round moulding front edge of trade jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete.	9.10	Sqmt	2464.40	22426.04
32	Providing and fixing Machine cut, Free edges, Polished Granite stone slab flooring 18mm thick for vertical wall/Doors/Windows Sill, Jams for cladding as per design including full moulded round inside edge and laid on 10mm thick base of cement mortar 1:3 (1-cement : 3-coarse sand) jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete.	18.00	Sqmt	2510.86	45195.48
33	Providing and fixing Machine cut Bothside mirror polished kota stone in single piece (Max 150 cm long and width upto 45 cm with both side polished) for horizontal Shelves including makng grooves & Fixing the same in Brick/ concrete wall finished with flush pointing, round open edge etc. complete	0.20	Sqmt	618.10	123.62
34	Providing and laying water prooofing treatment with china mosaic tiles flooring over avg 50 mm C.C. 1:2:4 bedding maintaining slope for plain and curve surface & 12 mm to 20 mm broken pieces not more than 2.5 cm of ceramic/ 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.	84.00	Sqmt	1133.22	95190.48

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
35	Constructing Sandwich Platform of 18mm thick polished black or selected granite at top and 25 mm thick kota stone with 75cm height with necessary support using 20mm thick cement mortar 1:3 for sandwich and fitting at bottom & edges with waterproof rigid adhesive including making necessary grooves in walls with vertical support of double kota stone sandwich every 60cm centre to centre including all labour material of approved quality including full moulded round front edge fixed in wall for partition.	3.00	Sqmt	2760.33	8280.99
36	Providing and fixing flush door with Single shutters, solid core construction with frame of Anodized Aluminium section (weight not less than 1.1 kg/mt.) with cross board and finished with 1 mm thick laminate on both side of shutter, machine glued PVC beading on periphery including 30cm long Stainless Steel Pipe handle on both side SS AISI 304 grade, SS Stopper 20cm, SS Aldrop 30cm both side, anodised aluminium butt hinges with necessary screws. (B) Non-decorative type and block board core anodised aluminium butt hinges in flush door shutters (2) 35 mm thick.	13.10	Sqmt	4211.70	55173.27
37	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm, @ Wt 1.094 Kg / Rmt, horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm @ wt.of 0.695 Kg/mt, vertical member of size 61.85 mm x 31.75mm x 1.30 mm @ wt.of 0.659 Kg/mt with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, vertical member of size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, @ Wt. 0.457 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 to frame as per details etc complete for window.	8.00	Sqmt	1713.70	13709.60
38	Providing and fixing Standard extruded colour anodized aluminium section frame weight 1.094 kg/Rmt.with Adjustable Glass Louvers of 5 mm thick transparent glass colour tinted float glass with transparent silicon gasket with allu. Powder coated fittings & fixtures.	1.00	Sqmt	1368.55	1368.55
39	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	1000.00	Litre	3.95	3950.00

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
40	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming 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 110 mm diameter x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	56.00	Rmt	876.12	49062.72
41	Providing, laying and jointing in true line and level 160 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming 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 160 mm diameter x 210 mm length x 196 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	10.00	Rmt	834.38	8343.80
42	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.	30.00	Rmt	148.12	4443.60
43	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.	20.00	Rmt	91.84	1836.80

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
44	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.	30.00	Rmt	72.65	2179.50
45	Providing and fixing concealed center point to wall ceiling & floor CPVC (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. 25 mm.	20.00	Rmt	253.82	5076.40
46	Providing and fixing concealed center point to wall ceiling & floor CPVC (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. 15 mm.	20.00	Rmt	170.36	3407.20
47	Providing and fixing Gun metal check or non-return fullway wheel valve.(E) 40mm dia.	3.00	Nos.	663.43	1990.29
48	Providing and fixing ball cock of approved. quality as directed.(A) Copper Metal (ii) 50mm dia.	1.00	Nos.	189.84	189.84
49	Providing and fixing C.P. brass shower rose with 15mm or 20mm inlet.(A) 100mm dia. Each	1.00	Nos.	282.16	282.16
50	Providing and fixing water closet squatting Pan (Indian type W.C. Pan) size 580mm (Earthwork, bed concrete, foot rest and trap to be measured and paid for separately) (A) Vitreous China.(I) Long pattern = White colour including 100mm size P or S trap for water closet squatting pan including jointing the trap with the pan and soil pipe in cement Mortar 1:1 (1-Cement : 1-Fine sand) with 25mm dia. chromium plated brass half turn flush cock of approved quality including fixing in pipe line xing G.I. inlet connection for flush pipe with W.C. Pan etc. complete.	1.00	Nos.	1637.50	1637.50
51	Providing and fixing washbasin (ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour including with approved sanitary grade material with CP waste coupling, waste pipe, 15mm dia Pillar & Stop Cock of approved brand with connection 15mm dia flexible pvc pipe etc. complete	1.00	Nos.	2180.72	2180.72



Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
52	Providing and fixing Kitchen sink with C.I. or M.S. brackets, painted white including cutting holes in walls (C) Vitreous China Sink.(i) 600mm x 450mm x 150mm size including approved sanitary grade material with CP waste coupling, waste pipe, 15mm dia Pillar & Stop Cock of approved brand with connection 15mm dia flexiable pvc pipe etc. complete	1.00	Nos.	2987.87	2987.87
53	Providing and fixing brass screw down stop tap.(A) 15mm dia.	8.00	Nos.	205.83	1646.64
54	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 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.	4.00	Nos.	586.60	2346.40
55	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	1.00	Nos.	1246.92	1246.92
56	Providing and fixing C.P. brass towel rail comlete with C.P. brass brackets fixed to wooden plugs with C.P. brass scews.(B) 600mm x 20mm size.	3.00	Nos.	616.42	1849.26
57	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 pluge with C.P. brass screws and washers.	1.00	Nos.	859.41	859.41
58	Providing and fixing in position PVC cowel went to pipes 160mm dia	2.00	Nos.	101.00	202.00
59	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.(ii) Inside dimensions 500mm x 700 mm and 450mm deep for pipe line with one or two inlets.	1.00	Nos.	3660.76	3660.76
60	Providing sock pit of 5.00 Cu.M. Volume including excavating and filling brickbats with dry masonry work at top for 45cm. height including covering the top with stone including providing vatas in C.M. 1:3 with finishing curing etc. complete as directed.	1.00	Nos.	3445.18	3445.18

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
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1	2	3	4	5	7
61	Applying general insecticide pest control treatment to floors, cupboards etc including labour materials etc. complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II( 0.075% concentration by mass) is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sqm of surface is recommended as per I.S.	101.00	Sqmt	80.62	8142.62
62	Providing and fixing Safety Grills of required pattern for windows/door using MS polished bars, Rectangular CRS Pipes of size 50mm x 30mm x 2mm or Required at required spacing as per design and hold fast with coach bolts including one coat of and two coats of matt finished oil painting etc. complete	303.00	Kg	112.72	34154.16
63	Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red 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	4.80	Quintal	9108.48	43720.70
64	Painting two coats (excluding priming coat) on external surface of new rain water, soil, waste and vent pipes and fittings with ready mixed bituminous brushing, black, anticorrosive to give an even shade including cleaning of all dirt, dust and other foreign matter. (B) 75mm dia.	7.00	Sqmt	22.75	159.25
65	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 -fine sand) (Conventional)	8.10	Cum	4214.33	34136.07
66	Providing and laying controlled cement concrete M.150 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work for Coping	1.00	Cum	7426.53	7426.53
67	Providing & laying weep hole in Aburtments, and returns by using A.C. pipe of 100mm including laying in proper grede and jointing the completed as per detailed specification.	34.00	Each	86.73	2948.82
68	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 (C) By mechanical means in area of light jungle	0.20	Hectare	28455.10	5691.02
69	Earthwork in cutting including preparing the slope and camber and stacking or utilising the cutting stuff in bank as directed upto 200 Meters from the end of cutting with all lead and lift.(i) Hard murrum.	84.00	Cum	260.57	21887.88

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1	2	3	4	5	7
70	Earthwork for embankment including breaking clods, dressing with all lead and lift (including watering and consolidation)(A) From Borrow pits within land width	376.00	Cum	131.93	49605.68
71	Rolling and consolidation of soling including filling in depression which occur during the process, with power roler 8 tonne to 12 tonne..	1330.00	Sqmt.	22.75	30257.50
72	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 50Mt.lead.	96.00	Cum	109.05	10468.80
73	Construction of B.I.T.C. granular sub base by providing granular material of Grading II, spreading in uniform layers with motor grader on prepared surface , mixing by mix in place method with front end loader at OMC , and compacting with vibratory roller to achieve the desired density ,complete as per Clause 401.	38.10	Cum	1190.19	45346.23
74	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam (Grade-II) (B.T. Metal of size 45 to 63 mm) specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/ vibratory roller in stages to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density.	28.00	Cum	1547.05	43317.40
75	Compaction and finishing of cement concrete road by trimix process providing extra labour charges for the trimix vaccum dewatering service process on cement concrete road surface by using vaccum dewatering pump floater surface vibrator including making rough finish to surface as per in including levelling the complete.	176.00	Sqmt.	72.72	12798.72
76	Supplying of yellow or Goradu soil with all lead and lift including spreading watering dressing and rolling with hand roller etc complete selected soil	5.00	Cum	505.00	2525.00
77	Supplying of well rotted FYM manure with all lead and lift including spreading mixing dressing and rolling with hand roller etc. complete	1.00	Cum	378.75	378.75
78	Scarifying the surface of soil including spreading of DAP fertilizer mixing with soil properly leveling ground dressing of the plot	20.00	Sqmt.	26.26	525.20
79	Supplying and planting Dibbling semi carpet lawn at distance of about 15 cm x 15 cm after proper anti termite treatment and rolling the same by hand roller and watering etc complete	20.00	Sqmt.	90.90	1818.00

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
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1	2	3	4	5	7
80	Bowling and developing flowering plants grown in nursery having approximate height 4 to 5 t or Height as per Landscape Plan with natural growth and natural colour planted in a lump of soil packed in polyethylene bag or earthen pot including organic & chemical fertilizer pesticides, fungicides, hormones & maintaining the plants up to three months as Jasud	4.00	Nos.	80.80	323.20
81	Bowling and developing flowering plants grown in nursery having approximate height 4 to 5 t or Height as per Landscape Plan with natural growth and natural colour planted in a lump of soil packed in polyethylene bag or earthen pot including organic & chemical fertilizer pesticides, fungicides, hormones & maintaining the plants up to three months as Croton	3.00	Nos.	85.85	257.55
82	Bowling and developing flowering plants grown in nursery having approximate height 4 to 5 t or Height as per Landscape Plan with natural growth and natural colour planted in a lump of soil packed in polyethylene bag or earthen pot including organic & chemical fertilizer pesticides, fungicides, hormones & maintaining the plants up to three months as Deserted Golden Durenta Varigated	2.00	Nos.	101.00	202.00
83	Bowling and developing flowering plants grown in nursery having approximate height 4 to 5 t or Height as per Landscape Plan with natural growth and natural colour planted in a lump of soil packed in polyethylene bag or earthen pot including organic & chemical fertilizer pesticides, fungicides, hormones & maintaining the plants up to three months as Deserted Pendulla Asopalav	1.00	Nos.	95.95	95.95
84	Bowling and developing flowering plants grown in nursery having approximate height 4 to 5 t or Height as per Landscape Plan with natural growth and natural colour planted in a lump of soil packed in polyethylene bag or earthen pot including organic & chemical fertilizer pesticides, fungicides, hormones & maintaining the plants up to three months as Deserted Potted Plants	5.00	Nos.	121.20	606.00
85	Labour charges for planting various plants after proper anti-termite treatment in pits including placing properly and filling the pits with required prepared mix soil and watering and dispoorting etc. complete	15.00	Nos.	70.70	1060.50
86	Maintance of the garden for 60 days after Complition of 3 month stipulated period is completed for plantation of lawn and plants including applying second round of proper anti-termite treatment	1.00	Job	25250.00	25250.00
87	Rubber Hose Pipe 15 mm dia of approved brand and make	10.00	Rmt	90.90	909.00

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				In figure Rs. Ps.	
1	2	3	4	5	7
88	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	10.00	Cum	122.99	1229.90
89	Drilling of pilot bore hole of size 250/300 mm diameter at above site by mud finish direct rotary rig etc. complete	30.00	Rmt	1544.29	46328.70
90	Supply of 200 mm diameter V-wire screen pipe of slot size 1.0 mm nominal hole etc. complete.	10.00	Rmt	1401.88	14018.80
91	Providing & Laying Rain Water Junction Chamber of Clear Internal Size 0.60 x 0.60 x 0.75m with excavation of size 1.36 x 1.36m & 0.15m thick M200 Bed Concrete Including brick masonry 0.23 thick wall in C.M. 1:6 of 0.75m height with 15mm thick Cement Plaster inside & outside (1:4), 1.06 x 1.06 RCC M200 top slab of thickness 0.15m with TMT steel and 455mm x 610mm cast iron manhole cover with frame weight not less than 35 kg as per directed by Engineer-in-charge.	1.00	Nos.	6241.80	6241.80
92	Providing & Laying Filter chamber of brickwork 0.23 thick in C.M. 1:6 of clear internal size 2.04m x 1.20m x 1.20m and excavation dimension of 2.80m x 1.96m x 1.35m including C.C. M200 Bed Concrete 0.15m thick and RCC M200 Top slab of thickness 0.15m with TMT steel, Including 15mm (1:4) thick cement plaster inside & outside with Cement slurry & top cover with frame of minimum weight of 35kg, including filling filter material of 200mm thick each layer of 25-40mm, 10-20mm of BT metal and sand as per directed by engineer-in-charge	1.00	Nos.	22067.49	22067.49
93	Providing & Laying Water Harvesting Pit of clear size 2.00 mt x 2.00 mt x 4.00 mt. For water logging with excavation in any strata upto four meter depth, Brick work 0.23 thick in C.M. 1:6 of clear internal size 2.00m x 2.00m x 1.20m with 15mm thick C.M. 1:4 plaster, filling the pit with B.T. metal 40mm in 0.60 mt. depth with 25-40mm kaptchi, 0.30 mt. depth and 2mt. depth with coarse sand in layers including makng P.V.C. line for water inlet etc. as directed with 250mm dia bore 15mt. depth amd 150mm dia PVC pipe of 10 Kg.f/cm2 casing wih gravel packing or as directed.	1.00	Nos.	32558.36	32558.36
94	II) Fire Extinguisher and Exit Signages Supply, installlation, testing and commissioning of Carbon Dioxide (CO2) type Fire Extinguisher of 4.5 kg confirm to IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brakets.	2.00	Nos.	6447.84	12895.68

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
95	Supply, Installation, Testing & Commissioning of ABC type 6kg confirm IS:15683, with ISI marked / TAC approved fitted with required accessories including wall suspension brackets.	2.00	Nos.	2222.00	4444.00
96	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.(B) Dense or Hard soil	3.00	Cum	272.57	817.71
97	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 Meter lead.(C) Hard Murrum	3.00	Cum	498.93	1496.79
98	Providing and laying cement concrete 1:5:10 (1- Cement : 5- fine sand : 10- graded brick bat aggregates 40mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	1.00	Cum	2566.77	2566.77
99	Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:5 (1- Cement : 5 -coarse sand ) in foundation and plinth (B) Conventional	4.00	Sqmt.	618.79	2475.16
100	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. (B) 50mm thick.	4.00	Sqmt.	352.01	1408.04
101	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)	16.00	Sqmt.	184.78	2956.48
102	Providing and Laying ordinary cement concrete 1:2:4 (1-Cement 2- coarse sand : 4- graded stone aggregates 20 mm nominal size) and finishing smooth with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C work in (iii) Slabs having more than 10 cm and upto 13 cm. thickness	1.00	Cum	6888.15	6888.15
103	Providing and fixing C.I. Manhole cover 0.60 M. x 0.45M. size having weight not less than 35Kg.	2.00	Nos	958.17	1916.34
104	Providing and laying (to level or slopes) and jointing with stiff mixture of Cement Mortar in proportion 1:1 Salt glazed stoneware pipes including testing of pipes and joints complete.(B) 150mm dia.	5.00	Rmt	317.48	1587.40
105	Providing and Constructing sock pit of 3.46 mt. dia outside and 4 mt depth with honey combed masonry 6.50 mt. from bottom and 0.60 mt. brick masonry in C.M. 1:6 top with RCC slab cover of M200 vent pipe 1.8mt. Long 75mm dia & C.I. cover and cowel vent etc. comp	1.00	Nos	34776.32	34776.32

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
106	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	20.00	Pts	485.81	9716.20
107	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	8.00	Pts	674.68	5397.44
108	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 completeCat-III (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	9.00	Pts	510.05	4590.45

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
109	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	16.00	Pts	257.55	4120.80
110	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	1.00	Nos.	160.59	160.59
111	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. (4) TV Co-axial Socket outlet Cat-III (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	3.00	Nos.	160.59	481.77
112	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	16.00	Nos.	25.25	404.00
113	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	1.00	Nos.	160.59	160.59
114	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. (9) 16 Amp. SP one way switch Cat-III (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	10.00	Nos.	180.79	1807.90



Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
115	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 Cat-III (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	10.00	Nos.	199.98	1999.80
116	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. (21) Foot Light as per colour requirement with concealed box, modular accessories, acrylic glass cover with suitable LED watt with all accessories as per following module (c) Six modules Cat-III (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	2.00	Nos.	604.99	1209.98
117	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 (b) 25 mm	70.00	Mtrs.	33.33	2333.10
118	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 (c) 32 mm	35.00	Mtrs.	54.54	1908.90
119	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (2) 25 mm	50.00	Mtrs.	21.21	1060.50
120	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (3) 32 mm	25.00	Mtrs.	27.27	681.75
121	Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes (2) 100 mm x 50 mm trunking	5.00	Mtrs.	428.24	2141.20

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
122	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 (Make: -RR Kabel, Havells, Avocab, KEI,Johnson)	350.00	Mtrs.	82.82	28987.00
123	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 (Make: -RR Kabel, Havells, Avocab, KEI,Johnson)	165.00	Mtrs.	112.11	18498.15
124	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 (Make: -RR Kabel, Havells, Avocab, KEI,Johnson) (i) 4 wire 10 sq. mm (use earth wire of 4 sq.mm ) (Make: -RR Kabel, Havells, Avocab, KEI,Johnson)	60.00	Mtrs.	260.58	15634.80
125	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	14.00	Mtrs.	22.22	311.08
126	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	27.00	Mtrs.	46.46	1254.42
127	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. e).RG-11	90.00	Mtrs.	62.62	5635.80

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
128	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	25.00	Mtrs.	20.20	505.00
129	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	40.00	Mtrs.	47.47	1898.80
130	Supplying & erecting M.S. Box having 16 Gauge painted with red oxide or Heavy duty PVC box erected flushed on wall or concealed in wall with necessary plastering & finishing as directed of following size. (c) 200 mm x 250 mm x 75 mm	1.00	Nos.	88.88	88.88
131	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 (Make:- Honeywell, L&T, Havells, Indoasian, Legrand)	1.00	Nos.	1133.22	1133.22
132	Decorative call bell Ting-tong box type 250 volts complete erected	1.00	Nos.	71.71	71.71

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
133	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/ non-integral driver . (iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat III (Make:- Wipro, LT,Philiphs,Havells,Jaquar)	13.00	Nos.	373.70	4858.10
134	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 (i) 5 to 8 watts Cat-III (Make:- Wipro, LT,Philiphs,Havells,Jaquar)	2.00	Nos.	112.11	224.22
135	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) above 48 to 60 Watts Cat-III (Make:- Wipro, LT,Philiphs,Havells,Jaquar)	3.00	Nos.	3345.12	10035.36

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
136	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.) (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 (ii)32-40W Cat-III (Make:- Wipro, LT,Philiphs,Havells,Jaquar)	2.00	Nos.	4092.52	8185.04
137	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 (Make:- Indoasian, L&T (LK), ABB, Schneider)	1.00	Nos.	6173.12	6173.12
138	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 (Make:- Indoasian, L&T (LK), ABB, Schneider)	5.00	Nos.	270.68	1353.40
139	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 (Make:- Indoasian, L&T (LK), ABB, Schneider)	12.00	Nos.	112.11	1345.32
140	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 (B) 40 Amp. Cat-III (Make:- Indoasian, L&T (LK), ABB, Schneider)	6.00	Nos.	295.93	1775.58

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
141	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.) for 63 Amp. Cat-III (Make:- Indoasian, L&T (LK), ABB, Schneider)	4.00	Nos.	737.30	2949.20
142	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 (Make:- Indoasian, L&T (LK), ABB, Schneider)	1.00	Nos.	2913.85	2913.85
143	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 (ii) 40 Amps.DP Cat. III (Make:- Indoasian, L&T (LK), ABB, Schneider)	3.00	Nos.	2235.13	6705.39
144	Providing and erecting metallic vitrified danger notice board as per language suggested by engineer incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.	1.00	Nos.	69.69	69.69
145	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	2.00	Kgs.	794.87	1589.74

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
146	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 resistane 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, Sulphar 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	1.00	Nos.	4591.46	4591.46
147	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) (Make: -RR Kabel, Havells, Avocab, KEI,Johnson)	30.00	Mtrs.	220.18	6605.40
148	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 (C) 4 core 10 Sq. mm (Make: -RR Kabel, Havells, Avocab, KEI,Johnson)	110.00	Mtrs.	140.39	15442.90
149	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.	70.00	Mtrs.	55.55	3888.50
150	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.	35.00	Mtrs.	74.74	2615.90

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
151	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. (B) If additional machinery like hammer driller or JCB use [Add]	14.00	Mtrs.	357.54	5005.56
152	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	119.00	Mtrs.	62.62	7451.78
153	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. (C) 2 to 4 core 10 Sq. mm	10.00	Nos.	38.38	383.80
154	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	Nos.	75.75	151.50
155	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	40.00	Nos.	13.13	525.20
156	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) 35/50 Sq.mm.	8.00	Nos.	20.20	161.60
157	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] (Make:- Crompton, Havells, Orient)	8.00	Nos.	1596.81	12774.48
158	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.	8.00	Mtrs.	108.07	864.56
159	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.	8.00	Nos.	108.07	864.56



Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
160	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 (Make:- Crompton, Havells, Orient)	2.00	Nos.	2054.34	4108.68
161	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	Nos.	515.10	1030.20
162	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	Nos.	3168.37	3168.37
163	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (Make:- Indoasian, L&T (LK), ABB, Schneider) [D] 4 pole 440V 40 Amp.	1.00	Nos.	2782.55	2782.55
164	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having[C] For 3 HP 3 phase open well horizontal mono block pump set suitable for 85 LPM to 270 LPM @ 11 mtr to 33 mtr head suitable for 50/65 mm dia delivery pipe Cat.II (Make:- Crompton, Lubi )	1.00	Nos.	15707.52	15707.52

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7
165	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	Nos.	7722.46	7722.46
166	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	40.00	Mtrs.	146.45	5858.00
167	Providing Water proof straight Joint in PVC insulated flat flexible copper cable by using insulating material, water proofing material, & making the joint complete. (A) Up to 10Sq. mm	1.00	Nos.	189.88	189.88
168	Supplying of following size of HEAVY UPVC column pipe with coupler and wire lock [B] 50 mm dia	20.00	Rmts.	359.56	7191.20
169	Supplying, & erecting C.I. swing, check type non-return (Reflux) Valve -ISI marked suitable for following size (A) 50 mm dia.	1.00	Nos.	1020.10	1020.10
170	Supply of following size of TOP & BOTTOM accessories i.e. Adaptor set (CI) long, pump guard set, starter pipe Rubber ring for submersible pump & UPVC column pipe as directed by Engineer - in - charge with necessary plumbing as desired.[D] 50 mm dia	1.00	Per Set	1489.75	1489.75
<b>Total Cost of Construction Cost</b>					<b>3085811.62</b>

(Rupees Thirty lakh Eighty Five Thousand Eight Hundred Eleven and Sixty Two Paise Only)

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

\*Estimated amount

Put to tender Rs...3085811.62  
Deduct ..... % below Rs.....  
Net Rs. ....  
In words .....

\*Estimated amount

Put to tender Rs.3085811.62  
Add ..... % Above Rs.....  
Total Rs. ....  
In words .....

Notes :

- 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.

Item No.	Item of work	Quantity	Unit	Estimated Rates	Total Amount according to estimated quantities
				In figure Rs. Ps.	
1	2	3	4	5	7

- 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.  
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
- 4 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 Dismantalling of Credit materials amounting of Rs. -0.00 must be recovered from Contractor's respective R.A. Bill.

Deputy Executive Engineer  
R&B Sub Division  
Himmatnagar

Executive Engineer  
R&B Division  
Himmatnagar