

Name of Work:-

Construction of B-TYPE 4 Unit and C-TYPE 4 Unit at Kukarmunda Dist-Tapi

BILL OF QUANTITIES					
Percentage Rate Tender					
Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1276.00	Cumt	119.12	151997.12
2	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(B) Dense or Hard soil	724.00	Cumt	165.69	119959.56
3	Filling in foundation and plinth with sand in layers of 20 cm. Thickness including watering ramming and consolidating etc. comp.	53.00	Cumt	470.39	24930.67
4	Filling available excavated Earth (Excluding Rock) in trench plinth side of foundation . in layer not excluding 20 cm in depth consolidation each deposited layer by ramming and watering etc. complete	895.50	Cumt	133.65	119683.58
5	Filling foundation and plinth with murrum or selected soil in layer of 20 cm in thickness including ramming watering and consolidating etc. complete	16.00	Cumt	296.29	4740.64
6	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.	351.50	Sqmt	50.71	17824.57
7	Providing and laying cement concrete 1:3:6 (1-Cement : 3- coarse sand : 6- machine cut stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	23.50	Cumt	3080.90	72401.15
8	Providing and laying controlled cement concrete M150 for curing complete including cost of formwork but excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings,Base of columns, Plinth Slab and Mass concrete.	210.50	Cumt	4223.16	888975.18
9	Providing and laying controlled cement concrete M250 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (A) Foundations, footings and Mass concrete. Footing	285.00	Cumt	4620.99	1316982.15
10	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	30.50	Cumt	7351.11	224208.86
11	Providing and laying controlled cement concrete M200 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 Ground Floor	42.00	Cumt	7304.36	306783.12
12	Providing and laying controlled cement concrete M200 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 First Floor	22.50	Cumt	7304.36	164348.10
13	Providing and laying controlled cement concrete M200 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 Second Floor	22.50	Cumt	7345.62	165276.45
14	Providing and laying controlled cement concrete M200 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 Third Floor	12.50	Cumt	7386.88	92336.00
15	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 Ground & Plinth BEAMS	67.00	Cumt	6236.84	417868.28

16	Providing and laying controlled cement concrete M150 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Plinth Slabs	65.50	Cumt	5318.56	348365.68
17	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Ground Floor Beams	42.50	Cumt	6199.86	263494.05
18	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) First Floor Beams	37.50	Cumt	6199.86	232494.75
19	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Second Floor Beams	37.50	Cumt	6241.12	234042.00
20	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Third Floor Beams	7.00	Cumt	6282.38	43976.66
21	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Chhajja for First Floor	2.50	Cumt	6499.46	16248.65
22	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Chhajja for Second Floor	2.00	Cumt	6540.72	13081.44
23	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Chhajja for Third Floor	1.00	Cumt	6581.98	6581.98
24	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Lintal for Ground Floor	2.00	Cumt	7498.50	14997.00
25	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Lintal for First Floor	3.00	Cumt	7498.49	22495.47
26	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Lintal for Second Floor	3.00	Cumt	7539.75	22619.25
27	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and reinforcement for reinforced concrete work in (C) Lintal for Third Floor	1.00	Cumt	7581.00	7581.00
28	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Ground Floor Slab	48.00	Cumt	6704.65	321823.20
29	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) First Floor Slab	41.00	Cumt	6704.65	274890.65
30	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Second Floor Slab	41.50	Cumt	6745.91	279955.27
31	Providing and laying controlled cement concrete M200 and curing complete including the cost of formwork and excluding reinforcement for reinforced concrete work in (C) Third Floor Slab	7.00	Cumt	6787.17	47510.19
32	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in (E) Stair case for Ground Floor to First floor	8.50	Cumt	8367.39	71122.82
33	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in (E) Stair case for First Floor to Second Floor	7.00	Cumt	8367.39	58571.73

34	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in (E) Stair case for Second Floor to Third Floor	7.00	Cumt	8408.65	58860.55
35	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in RCC Vertical and Horizontal wall for Ground Floor	26.00	Cumt	10414.84	270785.84
36	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in RCC Vertical and Horizontal wall for First Floor	7.50	Cumt	10414.84	78111.30
37	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in RCC Vertical and Horizontal wall for Second Floor	7.50	Cumt	10456.10	78420.75
38	Providing and laying controlled cement concrete M200 and curing etc. complete including the cost of form work and excluding the cost of reinforcement etc. complete in RCC Vertical and Horizontal wall for Third Floor	20.50	Cumt	10497.36	215195.88
39	Providing and laying controlled cement concrete M200 for RCC work and curing complete including the cost of form work but excluding the cost of reinforced concrete work in Coping on Ground Floor	10.50	Cumt	6437.24	67591.02
40	Providing and laying controlled cement concrete M200 for RCC work and curing complete including the cost of form work but excluding the cost of reinforced concrete work in Coping on First Floor	5.50	Cumt	6437.24	35404.82
41	Providing and laying controlled cement concrete M200 for RCC work and curing complete including the cost of form work but excluding the cost of reinforced concrete work in Coping on Second Floor	5.50	Cumt	6478.49	35631.70
42	Providing and laying controlled cement concrete M200 for RCC work and curing complete including the cost of form work but excluding the cost of reinforced concrete work in Coping on Third Floor	2.00	Cumt	6519.75	13039.50
43	Providing TMT Bar FE 550D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	103941.00	Kg	95.43	9919089.63
44	Providing and fixing 90 cm Height Stainless Steel Railing made from anticorrosive 316 grade S S pipe of 50 mm dia (16 Gauge) as hand rail with S S 316 grade Baluster of 38 mm dia Box pipe (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 with baluster including accessories as per detailed drawing as directed etc. complete.	139.50	Rmt	3626.51	505898.15
45	Providing and fixing 30 cm Height Stainless Steel Railing made from anticorrosive 316 grade S S pipe of 50 mm dia (16 Gauge) as hand rail with S S 316 grade Baluster of 38 mm dia Box pipe (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 with baluster including accessories as per detailed drawing as directed etc. complete.	107.00	Rmt	3164.53	338604.71
46	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 1:5. (1- Cement : 5 -fine sand) (B) Conventional below plinth	30.00	Cumt	4121.55	123646.50
47	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 1:5. (1- Cement : 5 -fine sand) (B) Conventional Ground Floor	174.00	Cumt	4403.40	766191.60
48	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in super structure in Cement Mortar 1:5. (1- Cement : 5 -fine sand) (B) Conventional First Floor	80.00	Cumt	4403.40	352272.00
49	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in super structure in Cement Mortar 1:5. (1- Cement : 5 -fine sand) (B) Conventional Second Floor	80.00	Cumt	4444.90	355592.00
50	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in super structure in Cement Mortar 1:5. (1- Cement : 5 -fine sand) (B) Conventional Third Floor	26.50	Cumt	4486.40	118889.60

51	Half Brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation and plinth (B) Conventional in super structure. for Ground Floor.	30.00	Sqmt	669.34	20080.20
52	Half Brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation and plinth (B) Conventional in super structure. for First Floor.	129.50	Sqmt	669.34	86679.53
53	Half Brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation and plinth (B) Conventional in super structure. for Second Floor.	129.50	Sqmt	675.49	87475.96
54	Providing and fixing 150 mm wide, approved quality chicken wire mesh at junction of brick work and RCC work or two dissimilar surfaces, at all heights fixed by nails, rowal plugs or tag by cement mortar 1:3 before applying the plaster, including curing, scaffolding all complete as directed.	440.00	Sqmt	295.93	130209.20
55	Providing 20 mm thick double coat mala cement plaster on 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 rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing, 10x10 mm grooves etc. complete. For Ground Floor	832.50	Sqmt	285.35	237553.88
56	Providing 20 mm thick double coat mala cement plaster on 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 rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing, 10x10 mm grooves etc. complete. For First Floor	916.50	Sqmt	285.35	261523.28
57	Providing 20 mm thick double coat mala cement plaster on 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 rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing, 10x10 mm grooves etc. complete. For Second Floor	917.00	Sqmt	312.74	286782.58
58	Providing 20 mm thick double coat mala cement plaster on 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 rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing, 10x10 mm grooves etc. complete. For Third Floor	292.00	Sqmt	340.13	99317.96
59	Providing 10 mm. Thick cement plaster in single coat for plastering on ceiling and soffits of stairs and finished even and smooth in : (I) Cement mortar 1:4 (1 cement : 4 sand) including Mala troweled finish etc. complete. Ground Floor	424.50	Sqmt	155.22	65890.89
60	Providing 10 mm. Thick cement plaster in single coat for plastering on ceiling and soffits of stairs and finished even and smooth in : (I) Cement mortar 1:4 (1 cement : 4 sand) including Mala troweled finish etc. complete. First Floor	355.50	Sqmt	155.22	55180.71
61	Providing 10 mm. Thick cement plaster in single coat for plastering on ceiling and soffits of stairs and finished even and smooth in : (I) Cement mortar 1:4 (1 cement : 4 sand) including Mala troweled finish etc. complete. Second Floor	355.50	Sqmt	179.19	63702.05
62	Providing 10 mm. Thick cement plaster in single coat for plastering on ceiling and soffits of stairs and finished even and smooth in : (I) Cement mortar 1:4 (1 cement : 4 sand) including Mala troweled finish etc. complete. Third Floor	47.00	Sqmt	203.17	9548.99
63	20 mm thick Sand faced cement plaster with 18x8 mm grooves as suggested by this office consisting of 12 mm thick backing coat of C.M. 1:3 (1 cement : 3 coarse sand) and 8 mm thick finishing coat of C.M. 1:1 (1 cement : 1 coarse sand) for all heights as directed etc. complete. and as per pattern sample approved by the architect or directed engineer in-charge	2263.50	Sqmt	389.86	882448.11
64	Providing throating or plaster drip and moulding to R.C.C. Chhajja.	61.00	Rmt	43.22	2636.42

65	Applying two coats of Acrylic lapy (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.	3923.50	Sqmt	40.59	159254.87
66	Wall painting (Three coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall with WITH ONE WALL TO HIGHLIGHT IN SPECIAL EFFECT (ROYALE PLAY) COLOUR surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	2741.00	Sqmt	187.86	514924.26
67	Painting (three coats) with plastic emulsion paint of approved brand and manufacture on undecorated ceiling surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	1183.00	Sqmt	86.92	102826.36
68	Wall Painting (Two coats) with weather proof + one coat Primer 100% acraylic emulsion paint of approved brand and manufacture and of required shade on exterior wall surface to give an even shade over and including primery coat with Alkaly resistance primer of approved brand after thoroughly brushing surface to remove all dust and remains of loose powdered material etc. copm. for all height	2255.00	Sqmt	133.93	302012.15
69	Providing And filling with good quality cinder (steam coal) as directed by engineer in charge in sunks in layers of 15 cm thick,including watering,placing ,ramming well etc as directed, for all floor.	16.00	Cumt	496.92	7950.72
70	Providing Water proofing Treatment on Sunk Slab including 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 average 50mm thick to Prepare slope including water proofing chemical etc. Complete for Sunk Slab All Floor.	93.50	Sqmt	376.63	35214.91
71	Providing and laying water proofing treatment with china mosaic tiles flooring over avg 50 mm C.C. 1:2:4 bedding for maintaining slope for plain and curve surface & 12 mm to 20 mm of broken piece not more than 2.5CM of ceramic / glazed tiles (one for more colour as directed) to be laid over cement mortar bedding of C M 1:3 (1 cement : 3 sand) contain water proofing materials per bag of cement useas specified by manufactured and slops to be tempered to bring mortar up to surface with using white cement and colour pigment including rounding of junctions and extending them up to 15 cm along the wall and curing with bends any patens or design as per drawing and cleaning by using oxalic acid etc. complete.	358.00	Sqmt	1153.42	412924.36
72	Providing & fixing in position standard extruded Aluminum Three track (3 shutter + 1 Mosquito net shutter) with Standard Extruded Colour Anodied Alluminium Section Equivalent to Jindal Series E (30mm) Section Numbered: Frame -Bottom with Weep Holes -20928, Frame Top & Side-20837 ,Shutter Top & Bottom 20993, Shutter Inter Lock -20550 ,Shutter Side (handle) -20549 With 5mm thick Transparent Tinted Float Glass With EPDM Rubber Gasket, Air Lock Stirip dd another shutter fitted with SS wire mosquito mesh jali in the same Aluminium shutter section and Finishing , Joint With Section Sealant, With Power Coated Standard Alluminium Fitting.with as per window size including all required materials labours and equipments as per detailed drwg. as directed.	47.00	Sqmt	3781.44	177727.68
73	Providing and fixing in position standard extruded Aluminium three-track sliding window (2 shutters + 1 mosquito net shutter) made of colour anodized extruded Aluminium sections equivalent to Jindal Series E (30 mm), comprising: Frame Bottom with weep holes – Section No. 20928, Frame Top & Side – Section No. 20837, Shutter Top & Bottom – Section No. 20993, Shutter Interlock – Section No. 20550, and Shutter Side (handle) – Section No. 20549. The shutters shall be fitted with 5 mm thick transparent tinted float glass fixed with EPDM rubber gasket, and one shutter provided with SS wire mosquito mesh jali in the same Aluminium shutter section. The system shall include air lock strip, joint sealing with approved sealant, and finishing with powder-coated standard Aluminium fittings, complete as per window size and detailed drawings. The rate shall be inclusive of all materials, fittings, fixtures, labour, equipment, and accessories, and the work shall be carried out as directed by the Engineer-in-Charge.	7.00	Sqmt	4481.37	31369.59

74	Providing & Fixing in position standard extruded approved colour anodised Aluminum Ventilator with outer frame (of Jindal Section No.21458,@ Wt0.650 kg/Rmt) with 5mm thick Bajari figure adgesteble tinted louvers glass fixed to alluminium strip blade including fixtures, fastenning, labours and equipments as per detailed drawing as directed. For Ventilators	6.00	Sqmt	1874.56	11247.36
75	Providing and fixing 35 mm thick flush single door shutter, solid core type, conforming to IS:2202 and ISI approved, mounted in a wooden frame of size 100 mm x 50 mm for durable grip of hinges. The shutter shall be finished with 1 mm thick decorative laminate on both sides, with machine-glued PVC banding on the periphery. The work shall include providing and fixing 600 mm long stainless steel handles on both sides, stainless steel fixtures, locking arrangement of approved standard make, and fixing of 4 nos. 150 mm long stainless steel hinges per shutter. All fittings, fasteners, accessories, labour, and materials shall be included, with sample and shade approved by the Engineer-in-Charge.	125.20	Sqmt	4317.75	540582.30
76	Providing and laying 60 x 60 cm Machine polished Machine cut Kota Stone slab flooring over 20 mm (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) 30mm thick	79.00	Sqmt	1084.30	85659.70
77	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement.	54.00	Sqmt	1099.95	59397.30
78	P & L 24" x 24" Soluble salt 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 dismantaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for DARK shade	352.00	Sqmt	1146.26	403483.52
79	Providing and laying antiskid ceramic tiles 30 x 30 cm size 6 mm thick in flooring treads of steps and landing laid on a bed of 12 mm thick cement mortar 1:3(1-cement:3-coarse sand)finishing with flush pointing in white cement	186.00	Sqmt	929.39	172866.54
80	Providing and laying glazed tiles tiles size 60 x 30 cm 6 mm thick in skirting risers of steps and dedo on 10 mm thick cement plaster 1:3 (1-cement:3coarse sand) and jointed with colour cement slurry	348.00	Sqmt	1477.25	514083.00
81	Providing and fixing staircase riser with 600x600x10 mm thick Soluble Salt Vitrified Tiles projecting, nozing rounded moulding in tread laid over 12 mm (av.) thick bases of cement mortar 1:6 (1-cement : 6-coarse sand) jointed with grey or colour cement slurry including rubbing and polishing incl. making Three No.s of grooves of size 3mm X 3mm along the length of treads etc. complete	195.00	Sqmt	1553.38	302909.10
82	Providing and fixing polished 18 mm thick black granite Shalves with full round edge and double side polished of approved quality fixing with cement slurry & adhesive including moulding of both exposed edges as directed by engineering in charge etc. complete.	276.50	Sqmt	2651.25	733070.63
83	Providing and fixing mirror polished 18-20 mm thick Granite stone with full round edge and polished of approved quality in clading on sill and around the doors/ windows/ ventilation with 12 mm thick cement mortor CM (1:4) and fixing with cement slurry & adhesive including moulding of exposed edges as directed by engineering in charge etc. complete.	191.00	Sqmt	2930.01	559631.91
84	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pnumatic 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	715.50	Sqmt	704.07	503762.09
85	Providinf and fixing Safty grills of required pattern for windows/ Door using necessary 12x12 mm M.S. Square bar, M.S flats and other structural steel at required spacing including cutting, welding and fabriction etc. including one coat of primer of approved quality and two coats of oil painting as per detail drawing etc complete.	1654.00	Kg	111.10	183759.40

86	Providing erecting and fixing double coated Syntex PVC. (ISI) water tank of required capacity each with all necessary fittings and connection etc. complete on terrace.	10000.00	Litre	3.95	39500.00
87	Providing laying and jointing in true line and level 50mm 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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	280.00	Rmt	195.67	54787.60
88	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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	280.00	Rmt	148.12	41473.60
89	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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	400.00	Rmt	91.84	36736.00
90	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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	150.00	Rmt	72.65	10897.50
91	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.	92.00	Rmt	834.38	76762.96
92	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.	224.00	Rmt	857.65	192113.60
93	Providing, laying and jointing in true line and level 75 mm dia. UPVC SWRType B pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering and fitting 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 at every 2000 mm c/c or shall be concealed in walss 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.	72.00	Rmt	798.91	57521.52
94	Providing and fixing in PVC SWR cowl vent 75mm dia to pipes.(B) 75mm dia.	6.00	No	16.16	96.96
95	Providing and fixing in PVC SWR cowl vent 110mm dia to pipes.(B) 110mm dia.	24.00	No	29.29	702.96
96	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 screed down or hinged grating including the cost of cutting and making good the walls.	48.00	No	585.37	28097.76

97	Provision and fixing water closet squatting orissa type W.C. pan size 580mm integral footrest and 100 mm P or S trap and in cluding 25 mm dia CP brass flush valve and GI inlet connection etc. comp. (A) Vitreous china long pattern white or color	8.00	No	1838.20	14705.60
98	Providing and fixing brass screw down stop tap.(A) 15mm dia.	50.00	No	205.83	10291.50
99	Providing and fixing ball cock of approved. quality as directed.(A) Copper Metal (ii) 50mm dia.	4.00	No	189.84	759.36
100	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including Rubber plug, sutting holes and making good the same but excluding fittings and also including rate of C.P. brass waste for washbasin or sink (A) 32mm dia. and M.I. fisher union for washbasin or sink. (A) 32mm dia.; (A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.	28.00	No	1649.22	46178.16
101	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.	32.00	No	852.76	27288.32
102	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.	32.00	No	616.42	19725.44
103	Providing and fixing screw down bib taps of following size.(A) Brass screw down bib tap polished bright. (i) 20mm dia.	60.00	No	214.81	12888.60
104	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	28.00	No	308.73	8644.44
105	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. (D) 300	340.00	Rmt	673.59	229020.60
106	Providing and laying (two level or slopes) and jointing with stiff mixture of Cement Mortar in proportion 1:1, Salt glazed stone ware pipes of pipes 150mm laying lime concrete 1:2:4 (1-Lime putty :2-Fine samd : 4-Graded brick aggregates 40mm nominal size) bedding for stoneware pipes of following internal diameters with necessary formwork and curing complete.	570.00	Rmt	522.18	297642.60
107	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	14.00	No	1246.92	17456.88
108	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having croshing strength not less than 35Kg. Cm2 in C.M. 1:5 precast RCC cover 455mm x 610mm intenal dimensions with frame (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete (i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.	26.00	No	3223.92	83821.92
109	Constructing brick masonry chamber for underground C.I. Inspection C.I. Inspection chamber and bends with briocks having croshing strength not less than 35Kg. Cm2 in C.M. 1:5 precast RCC cover 500mmx 700mm intenal dimensions with frame (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete (i) Inside dimensions 500mmx 700mm and 450mm deep for single pipe line.	16.00	No	3933.95	62943.20

110	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 precast RCC cover 455mm x 610mm internal dimensions with frame (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 (i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line. Extra over items for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber.(i) for 455mm x 610mm size.	10.00	Each	242.39	2423.90
111	Constructing brick masonry chamber for underground C.I. Inspection C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg. Cm2 in C.M. 1:5 precast RCC cover 500mmx 700mm internal dimensions with frame (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 (i) Inside dimensions 500mmx 700mm and 450mm deep for single pipe line. Extra over items for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber.(i) for 500mm x 700mm size.	10.00	Each	264.86	2648.60
112	Providing and fixing GI Ladder of required pattern with GI flats(30x3mm) or round or square bars (12mm) at required spacing & with round headed bolts and nuts or screws or welding including primer coat of approved quality and two coats of oil paint as directed by engineer in charge	900.00	Kg	95.95	86355.00
113	Providing, fixing and construction of sandwich type 18 mm thick One Side polished Granite Stone of uniform size and colour for kitchen/pantry/countr/ laboratory,shelves etc. in floor, dado or fascia upto 100 mm wide including necessary cement mortar bedding in cement mortar 1:2 of required thickness. Granite Stone shall be fixed over 25 mm thick Polished Kota bottom, cement joints and pointing as specified with necessary making of edges, polishing curing daily mopping with water and kerosene as directed for atleast 15 days or upto the satisfaction of engineer-in-charge.	18.00	Sqmt	6715.49	120878.82
114	Providing and fixing 25 mm thick polished kota stone Shelve with full round edge and double side polished of any required and fixing with cement slurry & adhesive including both exposed edges cut and Smooth Finished as directed by engineering in charge etc. complete.	18.00	Sqmt	667.61	12016.98
115	Providing and fixing Kitchen platform trolley having three drawers of SS (IS 304) of required size like thali, katleri, perforated, partition, cupsosar type in kitchen platform having drawer front side and backside by using 19mm thick all proof plywood of ISI quality all side laminated etc. as directed. The size of SS (IS 304) basket of size 4" to 18" for thali, dish, katleri, perforated, partition, cupsosar type as directed including necessary S.S. fittings, handles, nobs, telescopic channels, etc. as directed	18.00	Sqmt	12664.39	227959.02
116	Providing & fixing 25mm thick cupboards of plywood shutter including fixing 19 mm and 6mm thick back to back flush all proof plywood & including with Teak Wood frame 50 mm x 50 mm size as directed etc. complete including necessary both side lamination 1 mm thick outer side & 0.80mm thick inner side fixing by necessary SS hinges, handles, magnet, stoppers, etc. as directed including fevicol, and other hardware material required. Plywood and all fixture shall be of ISI quality and as approved by engineer-in-charge including cost of teak wood beading, one coat of primer and two coats of oil painting or polishing as directed.	193.00	Sqmt	3463.29	668414.97
117	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. © Vitreous China Sink.(i) 400x550 size	8.00	Nos	9736.40	77891.20
118	Providing and fixing in position 300 mm high, 150 mm wide English letters made from 1.0 mm thick stainless steel sheet as directed by Engineer in charge with all necessary tools & plants etc. complete.	100.00	No	707.00	70700.00
119	Providing and fixing in position 150 mm high, English letters made from 1.0 mm thick stainless steel sheet as directed by Engineer in charge with all necessary tools & plants etc. complete.	100.00	No	404.00	40400.00

120	Providing and fixing MS squire hollow pipe Section 75 x 50 x 5mm section 8.424KG/RMT at every 100mm C/C into R.C.C/Brick structure horizontally/vertical with priming coat and two coat enamel paint including all material ,laboure charges and accessories as per requirement as directed by Engineer-in-charge etc. complete.	15.00	Sqmt	2118.98	31784.70
121	Providing and fixing acrylic multilingual Braille (raised dots) DIRECTIONAL SIGNBOARDS of size 225 x 150mm designed as per accessibility standards and having 3.5mm thick acrylic base plate with Upper Case San Serif words made of white acrylic non glare cut out letters of height 15mm raised not less than 0.8mm above base plate and the equivalent word written in Hindi with Devanagari non glare acrylic letters of height 15mm raised not less than 0.8mm above base plate and having a non-glare acrylic cut arrow pointing in the required direction. Each signboard to be fixed as per manufacturers specifications on the wall at the approved location and at a height of 1200mm from FFL complete as per design / specifications and guidelines as per the entire satisfaction of the Engineer-in-charge	80.00	Nos	2041.72	163337.60
122	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.	787.00	Cum.	106.65	83933.55
123	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete for road work	96.39	Cum.	317.14	30569.12
124	Construction of granular sub-base 150 mm thick by providing coarse graded machine crushed B.T. material satisfying MOST specification of grading I (B.T. stone aggregate 53 mm to 26.5 mm 35 %, 26.5 to 4.75 mm - 45 % and 2.36 mm below - 20 %) including spreading in uniform layer with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density etc. complete.	182.00	Cum.	1238.28	225366.96
125	Providing and laying wet mix macadam base course 200- 250 mm thick using machine crushed B.T. chips as per required gradation mixing with required optimum quantity of water, conveying the mix to site of work, spreading in to grade and camber with mechanical paver and consolidation each layer with vibratory roller including cost of material labour plant and equipment etc. complete.	193.00	Cum.	1410.97	272317.21
126	Compaction and finishing of cement concrete road by trimix M.250 process providing extra Labour charges for the trimix vacume dewatering service process on cement concrete road surface by using vacuum dewatering pump floater surface vibrator including making groves and rough finish to surface including leveling etc complete.	964.00	Sqm	63.63	61339.32
127	Providing and Laying homoginious Grey cement based concrete kerbing of size 30 cm x 30 cm x 10 cm size as per detailed drawing having grade of concrete M25 grade, including necessary excavation, BBCC 1:5:10 7.5 cm as per ddetailed drawing fixing in line and level, filling joints in CM 1:3 with smooth finished, white washing three coats etc. complete as directed by Engineer in charge.	356.00	Rmt	370.68	131962.08
128	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
129	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [H]For 15 H.P,3 phase open well horizontal mono block pump set suitable for 1600 LPM to 1025 LPM @ 33 to 42 MTR head suitable for 65/80 mm dia delivery pipe	2.00	Nos	36107.50	72215.00
130	Supplying & erecting approvedmake 3 phase motor control cubicalpanel (Star-Delta) made from 16G.CRCA sheet duty painted with epoxy powder painted inside and outside with hinged doors and locking arrangement, consisting suitable size of ON-OFF isolator (AC- 3/23duty) main fuses,single phasing preventer cum water level, Guard(Compe unit), Toggle switch to by pass Single phase preventercum WLG,indicating lamps forR-Y-Bphases, over load relay.Automatic water level controller, Ammeter &Voltmeter each with two way selector switch incoming wires duty socket Crimped,Panel to be erected on angle iron frame grouted on wall as overload relay,thermal/Electronics star delta cutoff timer,start-stop push buttons.The isolator overload relay &cntractors ofL&T,Siemens or Cuttler Hamer make only.Panel to be erected on angle iron frame ground on wall (e)S/D upto 2.5 H.P.	2.00	Nos	19695.00	39390.00

131	Providing and fixing rolling shutters of approved make made of 80 mm wide M.S laths inter-locked together through their entire length and jointed together at the ends by end locks mounted on specially designed pipe shaft with bracket plates, guide channels and arrangement for inside and outside locking with push-pull operation including the cost of hood cover and sprig etc. complete (A) Shutters having width below 3.5M	10.00	Sqmt	3554.40	35544.00
132	Providing and fixing decorative entrance gate made out of cast iron and various mild steel tabular section combination, the Ornamental entrance gate should be fixed at compound wall including pattern and die making, cutting, welding, grinding, fabrication, fixing in position at compound wall with necessary pedestal, bearing block and other locking arrangement. The entrance gate should be painted with two coats of priming coat of paint, and two coat of oil paint etc complete. As per detail design and instruction of architect.	725.00	kg	165.64	120089.00
133	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 mt openable length having 50 no rounds per 6 mt length, upto 3mt height of wall with existing angle iron (50mm x 50mm x 5mm) required shaped As per Directed Engineer in charge. placed 2.4mt or 3.00mt apart and with 4 horizontal R.B.T. reinforced barbed wire (3 mm), stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape (R.B.T.)/Spring core (2.5 mm thick) and weight 43.478 gm/meter at compound wall for ESR M4/ intakewell.	200.00	Rmt	342.39	68478.00
134	Constructing providing and fabricating cattle guard using channel section frame of size ISMC series 100 mm x 50 mm (Weight 9.20 kg/Rmt) and ISMC section 100 mm x 75mm (weight 11.50 kg/Rmt) intermediate support for welding G.I. pipe at 12 Cm C/C of size 50 mm in a frame made of Channel section size 100 mm x 50 mm all round including fixing the unit on prepared chamber of masonry wall using MS hold fast embed in masonry wall top as directed by Engineer in charge and as per drawing and necessary required arrangement etc complete.	6.00	sqmt	5227.76	31366.56
135	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special flange compression type fittings, wall clip etc. including making good the wall ceiling and floor. (G) 110 mm	240.00	Rmt	339.05	81372.00
136	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special flange compression type fittings, wall clip etc. including making good the wall ceiling and floor. (G) 160 mm	100.00	Rmt	696.90	69690.00
137	Providing junction for rain water junction chamber of size 0.60x0.60x0.75m with excavation of size 1.96x1.96 m & 0.15m thick c.c. 1:2:4 bed concrete including brick masonry wall in CM 1:6 of 0.75m height & 0.23m thick with 15mm thick cement plaster inside & outside & 1.06x1.06 RCC (1:2:4) slab of thickness 0.15m with CRS steel and 0.60mx0.45m cast iron manhole cover with frame weight not less than 35 kg as per directed by Engineer-in-charge	16.00	No	9101.11	145617.76
138	Providing Filter chamber of Brick work in C:M 1:6 of size 2.06mx1.20m x 1.20m & excavation dimension of 2.66mx 1.81x1.35m including C.C 1:2:4 bed concrete of 0.15m thick including brick work in c.m 1:6 for 23cm thick wall including 15mm thick cement plaster inside & outside with cement slurry & 10cm thick RCC 1:2:4 top cover with frame of minimum weight of 35 kg & filling filter material kapchi in layers (25-40mm & 10-20mm) & BT metal 40mm & sand as per directed by Engineer-in-charge	4.00	No	16933.66	67734.64
139	Providing Recharging pit of size 2.0m Dia. & 2.0m depth of water logging with excavation filling the pit with gravel & sand in layers including making 300mm dia bore depth of 4.5mt & above concrete with kapchi in layers (25-40mm & 10-20mm) & BT metal 40mm & filling brick as directed by Engineer-in-charge.	2.00	No	15502.49	31004.98
140	Drilling pilot borehole of size 250/300 mm at above site by mud flush direct rotary rig.	100.00	Rmt	853.25	85325.00
141	Reaming of 250/300 mm dia. Pilot borehole to size 550 mm dia. Including assembling, lowering housing, casing strainer pipes with gravel packing and clayball packing etc.	15.00	Rmt	527.95	7919.25

142	Development of each water bearing zone coming across the full depth of tubewell by lowering 100 mm dia. Dropline and 32 mm dia airline for each water bearing Zone with suitable capacity air compressor up to availability of sand free discharge.	1.00	Job	13212.90	13212.90
143	900 CFM /200 PSI capacity air compressor upto the availability of sand free discharge for upto 250 mtrs	1.00	Job	27206.17	27206.17
144	Supply of M.S. E.R.W. plain end medium duty pipe confirming to IS 4270/2001 with latest amendments Of size 250 mm dia (minum thickness of 7.1 mm)	100.00	Rmt	2440.64	244064.00
145	Screen Slotting of MS ERW balnce pipe with size of slot 6.75 cm X 6.35 cm X 3.12 mm for 250 mm dia pipe	200.00	slots	0.22	44.00
146	Supply of miscellenious bore material suitable to 250 mm dia pipes as following (A) MS Bore clamps made from M.S. plate with 3 holes on either side with nuts & bolts of std make of size 900X100X16 mm flat suitable for 250 mm dia pipe.	1.00	Pair	1912.70	1912.70
147	Supply of miscellenious bore material suitable to 250 mm dia pipes as following (B) MS Bore Plug having 100mm height made from M.S. plate with 3 holes at equal distance on circumference for nut-bolts type, locking arrangement with nuts-bolts & lock nuts of std make complete from 5 mm thick M.S. plate suitable for 250mm dia pipe.	1.00	No	1385.64	1385.64
148	Supply of miscellenious bore material suitable to 250 mm dia pipes as following (C) MS Bail Plug having length 0.45 mtr from medium class pipe as per I.S. suitable for 250 mm dia pipe.	1.00	No	999.90	999.90
149	Supply of miscellenious bore material suitable to 250 mm dia pipes as following (D) Steel bent plate suitable for ERW pipe for 250mm dia (size:200 X 150X6 mm)	168.00	NO	86.21	14483.28
150	Supply of GRAVEL OF selected size 4 mm to 6mm	40.00	Cum	2020.24	80809.60
151	Electrologging of Pilot bore hole with carting.	1.00	Job	10665.60	10665.60
152	Geohydrological ground water investigation including vehicle charges for three phase DTH bore/DR tube well including water sample testing & chemical analysis	1.00	No	14220.80	14220.80
153	Providing, supplying and commissioning ISI mark CI D/F Reflux Valves 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 IS 5312 with ISI mark size: 100 mm	1.00	No	4753.30	4753.30
154	Providing and laying in trenches galvanised mild steel tubes (Midium grade) of the following nominal bore, and tube fitting (Earthwork in trenches to be measured and paid for separately (H) 80mm	100.00	Rmt	921.68	92168.00
155	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 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 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.	6.00	No.	7180.44	43082.64
156	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	0.04	Hect.	28455.00	1138.20
157	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation)(E) From Borrow area within all lead	1580.00	Cumt	165.25	261095.00
158	Rolling of earthwork in layers with power roller including filling in depressions which occur during the process and Watering of earth work as directed.	1580.00	Cumt	22.89	36166.20

159	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	138.00	Pt.	485.81	67041.78
160	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 For point wiring in bathroom and W/C and washbasin	16.00	Pt.	242.91	3886.48
161	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	36.00	Pt.	674.68	24288.48
162	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	32.00	Pt.	257.55	8241.60
163	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. (1)One No. SP 6 Amp. Cat.III	40.00	Nos	151.50	6060.00
164	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. (2) One No 5 pin plug Cat.III	40.00	Nos	151.50	6060.00
165	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	8.00	Nos	160.59	1284.72
166	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	60.00	Nos	180.79	10847.40
167	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	56.00	Nos	199.98	11198.88
168	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 (a) Two modules Cat-III	12.00	Nos	316.13	3793.56

169	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	400.00	Mtr.	24.24	9696.00
170	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	1800.00	Mtr.	82.82	149076.00
171	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	1600.00	Mtr.	112.11	179376.00
172	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 (b) 2 wire 6 sq. mm	390.00	Mtr.	147.46	57509.40
173	Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (e) One wire 6.00 sq. mm	30.00	Mtr.	56.56	1696.80
174	Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (f) One wire 10.00 sq. mm	40.00	Mtr.	91.91	3676.40
175	Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (g) One wire 16.00 sq. mm	40.00	Mtr.	142.41	5696.40
176	Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (h) One wire 25.00 sq. mm	10.00	Mtr.	236.34	2363.40
177	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	90.00	Mtr.	46.46	4181.40
178	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. (b) RG-6	200.00	Mtr.	39.39	7878.00
179	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	8.00	Nos.	1133.22	9065.76

180	Decorative call bell Ting-tong box type 250 volts complete erected	8.00	Nos.	71.71	573.68
181	Supply of Fibreglass Platform Step (A Type) Ladder - 8 FT having following specifications : It should have large fully serrated platform 15" wide 20" deep which locks ladder, Aluminium feet with thick rubber tread, top rail guard to serve as a railing, two pairs of gusset support at the bottom step and All gussets are heavy duty steel. Capacity : 300 lbs. Step Width : 3' Approx. spread : 62" Width : 29.5" Approx. Wt. : 22 Kg Approx. Cube : 11.62	1.00	Nos.	23726.92	23726.92
182	Supply of Fibreglass Platform Step (A Type) Ladder - 15 FT having following specifications : It should have large fully serrated platform 15" wide 20" deep which locks ladder , Aluminium feet with thick rubber tread, top rail guard to serve as a railing, two pairs of gusset support at the bottom step and All gussets are heavy duty steel. Capacity : 300 lbs	1.00	Nos.	31636.23	31636.23
183	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 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	60.00	Nos.	373.70	22422.00
184	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) 2 to 3 watts Cat.III	62.00	Nos.	69.69	4320.78
185	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	18.00	Nos.	4997.48	89954.64
186	(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	2.00	Nos.	4819.72	9639.44
187	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	3.00	Nos.	6173.12	18519.36
188	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. 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	Nos.	8055.76	8055.76
189	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. 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 (With Enclsoure)	1.00	Nos.	8861.33	8861.33

190	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A.with variable 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	4.00	Nos.	16221.61	64886.44
191	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing.. (2) 125 A -200 A , CT Ratio 1/200	2.00	Nos.	4983.34	9966.68
192	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	1.00	Rmt	1961.42	1961.42
193	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. (B) Suitable for 200 Amp. capacity	2.00	Rmt	3202.71	6405.42
194	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	20.00	Nos.	270.68	5413.60
195	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	100.00	Nos.	112.11	11211.00
196	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 (B) 40 Amp. Cat.III	24.00	Nos.	330.27	7926.48
197	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	6.00	Nos.	668.62	4011.72
198	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	12.00	Nos.	176.75	2121.00
199	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (i)4 way	2.00	Nos.	355.52	711.04
200	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iv)12 way	10.00	Nos.	1492.78	14927.80
201	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) 40Amps. DP Cat. III	10.00	Nos.	2235.13	22351.30
202	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	120.00	Kg.	794.87	95384.40

203	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	20.00	Nos.	368.65	7373.00
204	For using salt and charcoal / coke as required for pipe type earthing.	20.00	Nos.	171.70	3434.00
205	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 Back filling compound - 1 Nos Bag of 15 Kg.	6.00	Nos.	4591.46	27548.76
206	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories, 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	7.00	Smt.	10468.65	73280.55
207	Providing, erecting, fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	30.00	Kg.	77.77	2333.10
208	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable 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) 2 core 6 Sq. mm	20.00	Mtr.	92.92	1858.40
209	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	120.00	Mtr	378.75	45450.00
210	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 (E) 3 1/2 core 95 Sq. mm (50 Sq. mm 1/2 core)	320.00	Mtr.	490.86	157075.20
211	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 6 Sq. mm	400.00	Mtr.	126.25	50500.00

212	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) 4 core 25 Sq. mm	30.00	Mtr.	190.89	5726.70
213	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.	924.00	Mtr.	55.55	51328.20
214	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	924.00	Mtr.	62.62	57860.88
215	Providing & laying. R.C.C. Hume pipe for cable to be laid 90 cm. below ground across the road crossing or on floor with necessary material in an approved manner and making the ground as per original. (C) 300 mm dia	100.00	Mtr.	343.40	34340.00
216	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 2 to 4 core 6 Sq. mm	32.00	Nos.	38.38	1228.16
217	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. (D) 3 & 1/2 core 95 Sq. mm	4.00	Nos.	131.30	525.20
218	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	128.00	Nos.	6.06	775.68
219	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/ cadmium plated nut bolts in an approved manner. (F) 95 Sq.mm.	16.00	Nos.	40.40	646.40
220	Providing and fixing approved make Ladder type cable tray. Made from M.S sheet. The cable tray should be bended as per IS 2062/1079 shall be fabricated of double bended channel section longitudinal members with single bended Channel section. Rungs of members welded to the base of the longitudinal members at 250 mm c/c spacing. as per IS and shall be coated with hot dip galvanizing as per IS 2629/4759. with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erected on existing support as per Specification and as per instruction of engineer in charge.. (3) 300 X 50 X 2.0 mm Thick	1.00	Mtr.	309.06	309.06
221	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]	36.00	Nos.	1596.81	57485.16
222	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.	36.00	Mtr.	108.07	3890.52
223	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.	36.00	Nos.	108.07	3890.52
224	Supply of approved make FRP Pole having following specifications: FRP Light Pole made by CNC filament winding machine using thermoset resin polyester/epoxy resin system) having minimum 62% glass content. The pole should be in one piece and tapered round in shape, having smooth finish and should be totally free from corrosion as well as non conductive & shock proof Pole should be provided with	16.00	Nos.	11719.03	187504.48
225	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. (C)150mm x 125mm x 100mm [deep]	2.00	Nos.	476.72	953.44

226	Supplying and erecting Street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I. sleeve tubing of approx. 45cms.length and suitable for 76.5mm/80mm/require size of pole top having nuts and bolts for fixing the brackets and having spread of 0.5 mtr. Length with 110 deg.with vertical plane and suitable welded stiffener reducer and nipple with check nut complete painted with one coat.of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [A] Single Arm bracket 0.5 Mtr	10.00	Nos.	491.87	4918.70
227	Supplying and erecting Street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I. sleeve tubing of approx. 45cms.length and suitable for 76.5mm/80mm/require size of pole top having nuts and bolts for fixing the brackets and having spread of 0.5 mtr. Length with 110 deg.with vertical plane and suitable welded stiffener reducer and nipple with check nut complete painted with one coat.of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms.[B] Double Arm Bracket 0.5 Mtr	4.00	Nos.	569.64	2278.56
228	Supplying & erecting IP 55 grade following size section pillar fabricated from joint less M.S. Sheet with angle iron legs made from jointless M.S. Angle with cable clamps to be buried in ground to have appropriate erection to work uniform until erected with cement concrete foundation and 45 cm high bricks work finishing with plaster etc. hinged double door internally supported on both side, with internal and outside looking arrangement with look and keys in duplicate 35 x 35 x 5 mm M.S. Angle of Two Nos. one is welded and other with nut and bolt for erecting Bakelite sheet. Painting the Section Pillar inside and out side with three tank powder coated paint. section pillar roof should be without joint with water leakage proof & tested as per IP 55 test & followed by IS 2147 of 1962 (B) 75 X 60 X 45 cm section pillar fabricated from 16 Gauge MS Sheet with angle iron legs 45 cm long made from 35 X 35 X 5 mm thick MS angle.	1.00	Nos.	3595.60	3595.60
229	Supplying & erecting approved make IP 55 grade Company fabricated Timer Panel of following capacity for switch On-Off street lights on time scheduling basis made from 16G CRCA sheet duly epoxy power painted inside and outside with hinged doors and locking arrangement consisting of suitable size of 4 Pole MCB and 4 pole contactor (cat-III)with analog time switch, auto manual switch of same make and suitable input and output Bakelite terminals and with door earthing approved by Engineer in charge..(B) 40 Amp	1.00	Nos.	13350.18	13350.18
230	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.	2.00	Nos.	1275.63	2551.26
231	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.	2.00	Nos.	1558.43	3116.86
232	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	4.00	Nos.	317.14	1268.56
233	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	6.00	Nos.	274.72	1648.32
234	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	6.00	Nos.	43.43	260.58
235	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [B] For 5.5 / 6.5 KG Capacity	2.00	Nos.	8671.86	17343.72
236	SITC of Vertical Air Termination Solid aluminium with Base- 10 mm dia and 1000 mm long. Air Termination Base tested for conditioning, Ageing Test & Lightning impulse current withstand test: 100 kA of 10/350µs waveform in an accredited Third party laboratory as per 6.3 & 6.4 of IEC 62561-1 2017 protocol with MAST 34mm dia 3000 mm long- Cold Galvanized	4.00	Nos.	9416.23	37664.92

237	SITC of 8 mm dia solid Aluminium Conductor for roof top mesh grid and tested as per IEC 62561- 2 conducted in the Govt. accredited thirty party laboratory to meet the requirement of IS/IEC 62305 with Required Accessories - Aluminium Holding clamp at every 1 mtr distance, Aluminium/SS cross splicer at every crossing of Alu. conductor, Expansion piece with connectors at every 20 mtr distance, Aluminium straight Splicer to connect conductors. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning & Ageing Test & 6.4 for Lightning impulse current withstand test: 100 kA of 10/350µs waveform(Ageing & Electrical test) conducted in a sequence manner & tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230	80.00	Mtr	299.97	23997.60
238	SITC of 10 mm MS Round Solid Conductor having smooth surface Should be tested and use exclusively for lightning protection (Vertical Riser/Down Conductor which shall be concealed in Column OR Flushed on) to meet the requirement of IS IEC 62305 With Accessories - Earthing stud of dimension SS-75mm OD plate with 10mm dia tail connector used in structural steel ring earthing system to meet the requirements of IS/IEC 62305. (For Interconnecting the Column and the Terrace AL Conductor / Strip/Flat), SS Cross Connector to connect Earth fixing point to vertical raiser/Down conductor, SS Straight Splicer at every 4 Mtr to connect MS conductor in column, Bonding /Rebar Clamp at every 3 mtr suitable for interconnecting round conductor with reinforcement inside the concrete for structural earthing system, SS connector -To connect external conductor 8- 10 mm with earth fixing point. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning & Ageing Test & 6.4 for Lightning impulse current withstand test: 100 kA of 10/350µs waveform(Ageing & Electrical test)Conducted in a sequence manner & tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230	80.00	Mtr	728.21	58256.80
239	SITC of Galvanized Steel Flat 25x6 mm thickness from earth electrode directly in ground as required. Zinc coating: 500 g/m square (Approx:70 micron coating) tested and used exclusively for lightning protection earthing system and ring equipotential bonding.	20.00	Mtr	154.53	3090.60
240	SITC of 14.2 mm dia 3 mtr long Earth electrode of High tensile steel electrode with 250 micron copper bonding & 1 bag of Carbon fill Based environment friendly backfill tested as per IEC 62561-7 in NABL accredited Laboratory and suitable stainless Steel double sided clamp. Eco Friendly rust proof heavy duty weather proof Polyethylene Earth Pit Chamber with following dimensions :254 mm dia (top), 330 mm dia (bottom) & 260 mm (height). ENERGY AUDIT & SAFETY AUDIT	8.00	Per Set	5992.33	47938.64
				Total =	35225012.06

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

Tender works out as under.

Estimated amount put to tender

Deduct.....% below

Net

In words

Estimated amount put to tender

Add.....% Above

Net

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.
- The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
- 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 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.
- GST will be paid Extra as per Govt. amendment

Executive Engineer
Tapi (R & B) Division
Vyara