

SCHEDULE "A"

Development of housing and livelihood infrastructure in low income settlement in Puducherry

ABSTRACT OF ESTIMATE

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
		Housing for slum dwellers, development of new housing tenements at Dubraypet.					
1	Item 1.1	CODE NO: 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m - all kinds of soil.	1584.29	Cum			
2	Item 1.2	CODE NO: 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil.	657.46	Cum			
3	Item 1.3	CODE NO: 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	1620.99	Cum			
4	Item 1.4	CODE NO: 2.27A.1 Supplying and filling with gravel (excluding rock) in renches,plinth,sides of foundation etc. In layers not exceeding 20cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift.	1481.87	Cum			
5	Item 1.5	Code No: NPSR-1 Supplying and filling in plinth with M sand under floors including, watering, ramming consolidating and dressing complete	200.48	Cum			
6	Item 1.6	CODE NO: 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	46.26	Cum			
7	Item 1.7	CODE NO: 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	141.65	Cum			
8	Item 1.8	CODE NO: 5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of entering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable. - All work upto plinth level	369.03	Cum			
9	Item 1.9	CODE NO: 5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable separately. - All work above plinth level upto floor V level	816.67	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
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10	Item 1.10	CODE NO: 5.22.10 Providing and placing M30 grade cover block for RCC work all levels	19070.7	Nos			
11	Item 1.11	CODE NO: 5.8 Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers , facias and eaves boards upto floor five level excluding the cost of centering , shuttering , finishing and reinforcement , with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	6	Cum			
12	Item 1.12	CODE NO: 5.34.1 Extra for providing richer mixes at all floor levels - Note:- Excess/ less cement over the specified cement content used is payable / recoverable separately - Providing M-30 grade concrete instead of M-25 grade BMC / RMC . (Note:- cement content considered in M-30 is @ 340 kg /cum)	15.59	Cum			
13	Item 1.13	CODE NO: 5.9.1 Centring and shuttering including strutting, propping etc.and removal of form for:Foundations , footings, bases of columns,etc. for mass concrete.	7533.56	Sqm			
14	Item 1.14	CODE NO: 5.9.3 Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings , balconies and access platform	3400.33	Sqm			
15	Item 1.15	CODE NO: 5.9.5 Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers.- Using steel sheet with M.S.frames	3908.97	Sqm			
16	Item 1.16	CODE NO: 5.9.6 Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars, piers, abutments, posts and struts.	2615.76	Sqm			
17	Item 1.17	CODE NO: 5.9.7 Centring and shuttering including strutting, propping etc. and removal of form for: Stairs (excluding landings) except spiral - staircases	322.04	Sqm			
18	Item 1.18	CODE NO: 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	10.17	Cum			
19	Item 1.19	CODE NO: 5.18.1 Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	99.1	Sqm			
20	Item 1.20	CODE NO: 5.22.6 Steel reinforcement for R.C.C.work including straightening, cutting, bending, placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	32872.544	Kg			
21	Item 1.21	CODE NO: 5.22A.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete above plinth level - Thermo - Mechanically Treated bars (TISCO / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	106410.9	Kg			
22	Item 1.22	CODE NO: 5.9.19 Centring and shuttering including strutting, propping etc. and removal of form for: Weather shade, Chajjas, corbels etc..including edges.	1268.32	Sqm			
23	Item 1.23	CODE NO: 6.1.2 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	282.13	Cum			

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24	Item 1.24	CODE NO: 6.4.1 Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	10.91	Cum			
25	Item 1.25	CODE NO: 6.47 AAC block work 230mm Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300mm thick AAC blocks in super structure above plinth level upto floor V level with RCC band with sill level and lintel level with approved block laying polymer modified adhesive mortar all complete. (The payment of RCC band and reinforcement shall be made for separately)	1174.06	Cum			
26	Item 1.26	CODE NO: 9.1.2V Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Vengai wood.	29.06	Cum			
27	Item 1.27	CODE NO: 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	722.42	Sqm			
28	Item 1.28	CODE NO: 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S.flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	10030.25	Kg			
29	Item 1.29	CODE NO: 9.53 Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	400	Each			
30	Item 1.30	CODE NO: 9.96.1 Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc.complete:- 1200 X 1200mm	400	Each			
31	Item 1.31	CODE NO: 9.97.1 Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete : - 300x10mm	81	Each			
32	Item 1.32	CODE NO: 9.100.1 Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-125mm	401	Each			
33	Item 1.33	CODE NO: 9.118.1 Providing and fixing to existing door frames -- 24mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws . The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness . The lock rail made up of 'H' section , a uPVC hollow section of size 100 x 24 mm and 2 mm (+-0.2 mm) wall thickness , fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+_ 0.1mm) wall thickness . They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification (For W.C. and bathroom door)	253	Sqm			

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34	Item 1.34	CODE NO: 9.165.1A Providing and fixing of 65mm Godrej Navtal lock of 6 levers etc complete	401	each			
35	Item 1.35	CODE NO: 10.25.2 Steel work welded in built up sections / framed work , including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in gratings, frames, guard bar, ladder, railings, brackets,gates and similar works	4263	Kg			
36	Item 1.36	CODE NO: 10.11.1 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators , side /top/centre hung, with beading and all members such as F7D,F4B,K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings , complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size)	4593	Kg			
37	Item 1.37	CODE NO: 11.40.1 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours , shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	240.46	Sqm			
38	Item 1.38	CODE NO: 11.40.2 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 600x600 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete Providing and laying rectified ceramic sqm 1,001.26 rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours , shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	2779.64	Sqm			
39	Item 1.39	CODE NO: 11.36C Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 300 x 600 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 300x600 mm	1807.92	Sqm			
40	Item 1.40	CODE NO: 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	689.86	Sqm			
41	Item 1.41	CODE NO: 12.20 Providing and laying pressed clay tiles (as per approved pattern) 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound , laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	741.78	Sqm			

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42	Item 1.42	CODE NO: 10.17 Providing and fixing M.S. fan clamp type I or II of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C.slabs or beams during laying , including painting the exposed portion of loop, all as per standard design complete	240	Each			
43	Item 1.43	CODE NO: 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	689.86	Cum			
44	Item 1.44	CODE NO: 13.8.2 15 mm cement plaster on rough side of single or halfbrick wall finished with a floating coat of neat cement of mix - 1:4 (1 cement: 4 fine sand)	10222.94	Sqm			
45	Item 1.45	CODE NO: 13.1.2 12mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	4793.81	Sqm			
46	Item 1.46	CODE NO: 13.22 Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	860.1	Sqm			
47	Item 1.47	CODE NO: 13.7.1 12mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement :3 fine sand)	119.42	Sqm			
48	Item 1.48	CODE NO: 13.7.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	191.6	Sqm			
49	Item 1.49	CODE NO: 12.75 Providing and laying water proofing for roof portion - Clean the surface using wire brush to remove fungus sticking on the tilesurface. Remove the laitance and plaster residues with a chisel & hammer and repair any broken structure with civil work . Apply one coat MACRYL SL (Acrylic penetrating primer) Lay one coat of 3-4 mm thick MATPROOF ACR (Fibre reinforcedAcrylic plaster) Elastomeric plaster on the flat area . Provide a seal coat with a flexible MACRYL again	136.08	Sqm			
50	Item 1.50	CODE NO: 13.9.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	202.8	Sqm			
51	Item 1.51	CODE NO: 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	3892.24	Sqm			
52	Item 1.52	CODE NO: 13.29.1 18mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand)- Flush Band.	340	Cm/per/ metre			
53	Item 1.53	CODE NO: 13.37.1 White washing with lime to give on even shade - New work (three or more coats).	3892.24	Sqm			
54	Item 1.54	CODE NO: 13.48.1 Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacture's specification -Two or more coats applied on walls @ 1.25 ltr / 10 sqm over and including one coat of special primer applied @ 0.75 ltr / 10 sqm	8805.97	sqm			
55	Item 1.55	CODE NO: 13.48.3 Painting steel work with deluxe multisurface paint to give an even shade. Two or more coat applied @ 0.90 ltr / 10 sqm over an under coat of primer applied @ 0.80 ltr / 10 sqm of approved brand and manufacture	97.5	sqm			
56	Item 1.56	CODE NO: 13.50.1 Applying priming coat - with ready mixed pink pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	894.2	sqm			
57	Item 1.57	CODE NO: 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	907.6	Sqm			

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58	Item 1.58	CODE NO: 7996 Factory made EPS light weight composite sandwiched wall/roof panel (50mm thick) having core material of EPS granule balls/beads (conforming to IS 4671: 1984 and shall have density not less than 15 kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board conforming to IS 14862:2000 or calcium silicate board conforming to EN 14306:2009 of 5mm thick each.	689.86	Sqm			
59	Item 1.59	CODE NO: 4.1.3 50MM Screed Concrete Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	35	cum			
60	Item 1.60	CODE NO: 4.2.3 Constructions of granular sub-base by providing coarse graded meteraial, spreading in uniform layer with motor grader on prepatred surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density complete as per clause 401 of MoRTH specification, 4th Revision for grading III material.	243.8	Cum			
61	Item 1.61	CODE NO: 10.6.1 Supplying and fixing rolling shutters of approved make, made of required size M.S.laths, interlocked together through their entire length and jointed together at the end by end locks , mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to ISS :4454 - part 1 and M.S.top cover of required thickness for rolling shutters - 80 x 1.25mm M.S.laths with 1.25 mm thick top cover	24	Sqm			
62	Item 1.62	CODE NO: 16.8 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and approved size and desing/shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sasnd etc. all complete.	1060	Sqm			
63	Item 1.63	CODE NO: 18.48A Providing and placing on terrace(at all floor levels)polyethylene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank. for domestic water- Circular Tank (3000 litre Tank 22nos)	80000	Litre			
64	Item 1.64	CODE NO: 18.62.3 Providing and fixing PTMT Ball cock of approvedquality colour and make complete with Epoxy coatl aluminium rod with L.P / H.P.H.D.plastic ball-25mm nominal bore, 152mm long,weighing not less than 440 gms.	26	Each			
65	Item 1.65	CODE NO:18.17.4 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 50mm nominal bore	26	Each			
66	Item 1.66	CODE NO:18.18.3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete-25mm nominal bore	80	Each			
67	Item 1.67	CODE NO:18.9.11 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall)-20mm nominal outer dia pipes	480	Mtrs.			

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68	Item 1.68	CODE NO:18.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	560	Mtrs.			
69	Item 1.69	CODE NO:18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 40mm nominal outer dia pipes	400	Mtrs.			
70	Item 1.70	CODE NO : NPSR-2 Providing, fixing, testing and commissioning of PVC multi inlet floor trap / p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete 1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors. 110mm dia inlet 75mm dia out let - Floor Trap	320	Each			
71	Item 1.71	CODE NO:19.33.1 Providing and fixing on wall /column face unplasticised - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter.	400	Mtrs.			
72	Item 1.72	CODE NO:19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings/accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion - Single tee with door - 110x110x110mm	80	Each			
73	Item 1.73	CODE NO:19.33.1E Providing and fixing on wall face/column face unplasticised - PVC moulded fittings/accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion-heel rest bend 110mm.	80	Each			
74	Item 1.74	CODE NO:19.33.2 Providing and fixing on wall/column face unplasticised-PVC soil and waste pipes(type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	640	Mtrs.			
75	Item 1.75	CODE NO:19.33.2A Providing and fixing on wall/column face unplasticised-PVC moulded fittings /accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	80	Each			
76	Item 1.76	CODE NO:19.33.2F Providing and fixing on wall face/column face unplasticised - PVC moulded fittings /accessories for unplasticised PVC soil and waste pipes conforming to IS:4985 including of jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - bend with door 75 mm.	80	Each			
77	Item 1.77	CODE NO:12.43.1 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete 75mm	240	Each			

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78	Item 1.78	CODE NO:12.43.2 Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete 110mm	240	Each			
79	Item 1.79	CODE NO:17.10.2.3 Providing and fixing Stainless steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I.brackets and stainless steel plug 40mm, including painting of fittings and brackets, cutting and making good the walls wherever required - kitchen sink without drain board -470x420 mm bowl depth 178mm	80	Each			
80	Item 1.80	CODE NO:17.28.2.2 Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete - Flexible pipe - 40mm dia	160	Each			
81	Item 1.81	CODE NO:17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	80	Each			
82	Item 1.82	CODE NO:17.18.2 Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -coloured	80	Each			
83	Item 1.83	CODE NO:17.20.2 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete - black solid plastic seat with lid	80	Each			
84	Item 1.84	CODE NO:17.25.2 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings -angleback wash basin of size 600x480mm	80	Each			
85	Item 1.85	CODE NO:18.53.1 Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	320	Each			
86	Item 1.86	CODE NO:NPSR-3 Providing, fixing, testing and commissioning of PVC multi inlet floor trap/ p trap of self cleansing design moulded or fabricated, if not available insize mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors.110mm dia inlet 110mm dia out let - P Trap	80	Each			
87	Item 1.87	CODE NO:18.49.1 Providing and fixing CP brass bib cock of approved quality conforming to IS 8931 - 15mm nominal bore.	320	Each			
88	Item 1.88	CODE NO:18.22.1 Providing and fixing CP brass shower rose with 15 or20 mm inlet 100 mm diameter.	80	Each			
89	Item 1.89	CODE NO:18.51.1 Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms - 15mm nominal bore.for kitchen	80	Each			
90	Item 1.90	CODE NO:17.73.2 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gm.	80	Each			
91	Item 1.91	CODE NO:18.65 Providing and fixing PTMT soap dish holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements weighing not less than 106 grams.	80	Each			
92	Item 1.92	CODE NO:18.56.1 Providing and fixing PTMT pillar cock of approved quality and colour - 15 mm nominal bore , 107 mm long, weighing not less than 110 gms	80	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
93	Item 1.93	CODE NO:18.57.2 Providing and fixing PTMT , push cock of approved quality and colour - 15 mm nominal bore, 80 mm long, weighing not less than 46gms	80	Each			
94	Item 1.94	CODE NO:12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes-110mm diameter	300	Metre			
95	Item 1.95	CODE NO:12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	44	Each			
96	Item 1.96	CODE NO:12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	32	Each			
97	Item 1.97	CODE NO:12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs,screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 110mm	320	Each			
98	Item 1.98	CODE NO:12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams	8	Each			
99	Item 1.100	CODE NO:1.10.1 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit,with modular switch,modular plate,suitable GI box and earthing the point with 1.5 Sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.Group (A)	1800	Point			
100	Item 1.101	CODE NO:1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	240	Nos			
101	Item 1.102	CODE NO:1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit , 2 way modular switch, modular plate , suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	50	point			
102	Item 1.103	CODE NO:NPSR-5 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	500	Nos			
103	Item 1.104	CODE NO:NPSR-6 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 6/16 A modular socket outlet and 6/16 A modular switch, connections etc. as required.	240	Nos			
104	Item 1.105	CODE NO:1.14.2 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2X 2.5 sq.mm + 1 x 2.5 sq.mm earth	4268	Mtr			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
105	Item 1.106	CODE NO:1.14.3 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2 X 4 sq.mm + 1 x 4 sq.mm earth wire	4040	Mtr			
106	Item 1.107	CODE NO:1.14.4 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2 X 6 sq.mm + 1 x 6 sq.mm earth wire	1700	Mtr			
107	Item 1.108	CODE NO:1.1.2.2 Supplying and laying of following size of PVC conduit in roof slab alongwith the accessories .Make:Avonplast/Vijaya:- 25mm dia	2997	Mtr			
108	Item 1.109	CODE NO:2.5.1 Supplying and fixing of following ways surface / recess mounting , vertical type, 415 V , TPN MCB distribution board of sherrt steel , dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common netural link, earth bar, din bar for mounting MCB'S (but without MCB,S (but without MCB's and incomer) as required. (note : Vertical type MCB TPDB is normally usd where 3 phase utlets are required) - 4 way (4 + 12), double door.	10	Nos.			
109	Item 1.110	CODE NO:2.3.2 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 8 way, double door	80	Nos.			
110	Item 1.111	CODE NO:2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 12 way, double door	80	Nos.			
111	Item 1.112	CODE NO:2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc .as required. -Single Pole	496	Nos.			
112	Item 1.113	CODE NO:2.10.3 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc .as required. -Double Pole	4	Nos.			
113	Item 1.114	CODE NO:NPSR- 7 Supplying and fixing 40 amps to 63 amps rating, Triple pole, 415 volts, 'c' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:Siemens/ABB/L&T Hager	12	Nos.			
114	Item 1.115	CODE NO:NPSR-8 Supplying and fixing 40 amps to 63 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	10	Nos.			
115	Item 1.116	CODE NO:NPSR-9 Supplying and fixing 100 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	2	Nos.			
116	Item 1.117	CODE NO:2.14.1 Supplying and fixing following rating , four pole ,(three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections , testing and commissioning etc.as required - 25 A	4	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
117	Item 1.118	CODE NO:2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.40A	80	Nos.			
118	Item 1.119	CODE NO:NPSR- 10 Supply and fixing of surface mounting, batten type 20W LED tube light (Four feet) luminaire with efficient driver (efficiency shall be more than 90%) & required minimum of 1600 lumens output, comprising of high quality diffuser technology complete with efficient & constant current output driver suitable for operation on 230V, single phase, 50Hz AC supply, efficient heat sink, effective thermal management and with colour temperature shall be >5000K. The LED with suitable control gear and power factor >0.9. and necessary fixing accessories as required. Make: Philips - Smart light BN021C LED20S PSC CW GR52 or similar Wipro or equivalent.	70	Nos.			
119	Item 1.120	CODE NO:NPSR- 11 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver& sunflower green colours) Make: Philips	4	Nos.			
120	Item 1.121	CODE NO:NPSR- 12 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KVgrade.	60	Mtrs.			
121	Item 1.122	CODE NO:9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 4 X25 sq.mm (28 mm)	8	Set			
122	Item 1.123	CODE NO:5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required	17	Set.			
123	Item 1.124	CODE NO:NPSR-13 Supply and laying of earthing and cable gland earthing using 10 SWG copper wire.	136	Mtr			
124	Item 1.125	CODE NO:NPSR-14 Supply of 11KV 3Cx185 Sq.mm HT XLPE Aluminium armoured ug cable, without any cable joint. all complete as per specifications, drawings and / or as required by the PED.	18	Mtrs.			
125	Item 1.126	CODE NO:NPSR-15 Supply and providing of 11KV indoor type heat shrinkable end termination suitable for 3Cx185 Sq.mm HT XLPE aluminium ug cable. All complete as per specifications, drawing and/or as required by PED.	1	Nos.			
126	Item 1.127	CODE NO:8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.as required - above 120 sq.mm and upto 400 sq.mm	18	Mtrs.			
127	Item 1.128	CODE NO:NPSR-16 Supply of 3 1/2 x 300sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	33	Mtrs.			
128	Item 1.129	CODE NO:NPSR-17 Supply of 3 1/2 x 240sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	500	Mtrs.			
129	Item 1.130	CODE NO:NPSR-18 Supply of 4 x6 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	60	Mtrs.			
130	Item 1.131	CODE NO:NPSR-19 Supply of 4 x4 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	155	Mtrs.			
131	Item 1.132	CODE NO:NPSR- 20 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 4 sq. mm	18	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
132	Item 1.133	CODE NO:NPSR-21 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 6 sq. mm	1	Set			
133	Item 1.134	CODE NO:9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required - 31/2 X240 sq.mm (62 mm)	9	Set			
134	Item 1.135	CODE NO:9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required - 31/2 X300 sq.mm (70 mm)	3	Set			
135	Item 1.136	CODE NO:7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - above 185 sq.mm and upto 400 sq.mm	180	Mtrs.			
136	Item 1.137	CODE NO:7.2.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning , protective covering and refilling the trench etc. as required - above 185 sq.mm and upto 400 sq.mm	355	Mtrs.			
137	Item 1.138	CODE NO:7.1.1 Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - Upto 35 sq.mm	215	Mtrs.			
138	Item 1.139	CODE NO:NPSR-22 Supply, testing and commissioning of 630A, 11KV, 25KA, Motorised and SCADA ready load break switch attachment to the existing Ring main switchgear unit at existing 11KV PED RMS Yard, Type SF6 insulated and motorized construction all complete as required by PED. The item including all transformer protections and necessary safety accessories, The plinth shall be constructed by civil contractor based on the load calculations given by the electrical contractor etc. All complete as per specifications, drawing and/or as required by PED.	1	Set			
139	Item 1.140	CODE NO:NPSR-23 Supply and erection of 2.1 Mtr. height 50mm diameter GI Poles around the HT switchgear/Transformer yard and laid with 25x25mm welded mesh with 2 coats of Alminum paint on it. The pole to pole gap will be maintained as 2.25Mts max. (1/5th of the Pole will be embedded in the ground). The item including required civil works and kerb wall etc.	35	Sq.mts			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
140	Item 1.141	<p>CODE NO:NPSR-24</p> <p>Supply, Unloading & handling, erection , testing and commissioning of 11KV/433V, 500 KVA of outdoor type, oil filled , copper wound, natural cooled (ONAN) type energy efficient transformer with the following specifications etc. energy efficient Transformer (IS:1180) with off load tap changer.The transformer cooling shall be of with oil and natural air. The items including necessary fixing accessories with all complete as required by PED.</p> <p>Rated Voltage HV Windings - 11 KV LV Windings - 433 V No load voltage ratio - 11 KV/ 433 V Rated Frequency - 50 Hz Winding Connections HV Windings - DELTA LV Windings - STAR Vector Group - Dyn 11 Terminal arangement Primary - 11KV Cable box Secondary - 433V Cable box. Temperature Rise by resistance - 90 Degree C Ambient Temperature - 50 Degree C Core lamination material - Cold Rolled Grain Oriented Core Type of cooling -Oil Natural Air Natural (ONAN) Type of winding insulation - DPC of class A insulation Losses</p>	1	Set			
141	Item 1.142	<p>CODE NO: NPSR-25</p> <p>Supply, installation, testing and commissioning of out door type (IP 65) LT Feeder Pillar fabricated with 14G CRCA sheet steel and powder coated, aluminium busbars, provision for incoming and outgoing cable terminations, the incoming and outgoing switchgears are as per the followings. The items including necessary control wiring, safety features, lock & key / sealing arrangements, minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete with necessary fixing accessories etc. All complete as required by PED standards & specifications.</p> <p>4 Way LT Feeder Pillar Incoming: 400A TPN MCCB - 1 no. Outgoing: 200A TPN FUSE - 4 nos.</p>	1	Set			
142	Item 1.143	<p>CODE NO: NPSR-26</p> <p>Supply, installation, testing and commissioning of 415V metering panel board fabricated with 14G CRCA sheet steel, powder coated with siemens gray (RAL7032 IS-5) after seven tank process, complete with aluminium bus bars (the clearance shall not less than 25 mm for phase-phase and 19mm for phase- neutral/earth), 3.15mm sheet steel or 40x40x6mm MS angle for load bearing members, lifting hooks, MS base frame of 75mm height incomers and outgoing switchgear as below. The item including cost of supply and fixing of 3-phase energy meters, necessary sealing arrangements, 25x3mm GI earthing throughout the bottom length, 6 sq.mm FRLS copper wire inter connections for compartment earthing, complete copper control wiring with crimping type ferrules, copper lugs, proper engraving sheet to be fixed on each outgoing etc. Also the cost inclusive of minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete as per specifications, drawing and/or as required by CEA/PED. The contractor shall submit general arrangement & control wiring drawings and get approval from site Engineer/Consultant before commence the fabrication works. Note:panels costing should be as per sld & with respect to PED standards</p> <p>Metering Panel Incomer : 200A TPN FSU : 1 no. Outgoings : 20 Sets each comprising of: a) 40A DP Fuse cut outs with neutral link.</p>	4	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
		b) Single phase Energy meter as per PED requirement. c) 40A DP MCB (C - curve 10KA) 1 Sets each comprising of: a) 63A TPN Fuse cut outs with neutral link. b) Dummy chamber for Fixing three phase energy meter as per PED requirement. c) 63A FP MCB (C - curve 10KA)					
143	Item 1.144	CODE NO: NPSR-27 COMMON PANEL Incomer 200A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 200/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 200A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat throught the panel length Outgoing: 100A, TPN, FSU - 2 Nos 63A, TPN, FSU - 2 Nos	1	Set			
144	Item 1.145	CODE NO: NPSR-28 EXTERNAL LIGHTING PANEL Incomer 63A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 63/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 63A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat throught the panel length Outgoing: 32A, TPN, MCB - 2 Nos Timer switch (daily)/ digital time switches daily programme with standby battery (3years) - 2 channel . Make:L&T-Hagger/Legrand-Lexic - 2 Nos	1	Set			
145	Item 1.146	CODE NO:14.4 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5m, including getting out the excavated soil, refilling with sand and good soil after laying of cable / pipe etc. in layers of 20cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters(750mm(d)x750mm(w))	70	cum			
146	Item 1.147	CODE NO:NPSR-29 Providing earthen cable trenches, including necessary excavation, supply and placing in position of sand, bricks / PCC protective slabs, cable markers and backfilling in compacted layers, all complete as per specifications, drawings and /or as directed by the Engineer.450 mm wide x 600 mm deep for LT cables	15	Mtrs.			
147	Item 1.148	CODE NO:NPSR-30 Supply and installation of inspection chamber of 750mm x 750mm x 750mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	5	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
148	Item 1.149	CODE NO:NPSR-31 Supply and installation of inspection chamber of 600mm x 600mm x 600mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	6	Nos			
149	Item 1.150	CODE NO:19.6.2 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointedwith stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete -150 mm dia RCC pipe	30	Mtrs.			
150	Item 1.151	CODE NO:19.6.4 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete - 300 mm dia RCC pipe.	7	Mtrs.			
151	Item 1.152	CODE NO:31.160.1K Providing, laying and jointing UPVC pipes(Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such as bends,tees, threaded pieces, couplers, reducer, endcaps etc.,complete all as per IS and CPWD specification. - 160mm dia.	60	Mtrs.			
152	Item 1.153	CODE NO:31.160.1G Providing, laying and jointing UPVC pipes(Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such as bends,tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 75mm dia.	60	Mtrs.			
153	Item 1.154	CODE NO:5.4 Earthing with G.I.earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc.but without charcoal / coke and salt as required	2	Set.			
154	Item 1.155	CODE NO:5.6 Earthing with copper earth plate 600 mm x 600 mm x 3 mm per thick including accessories , and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal / coke and salt as required	1	Set.			
155	Item 1.156	CODE NO:NPSR-32 Supply and laying of 25 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	260	Mtr			
156	Item 1.157	CODE NO:NPSR- 33 Supply and laying of 40 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	26	Mtr			
157	Item 1.158	CODE NO:NPSR- 34 Fire Bucket with sand(4 buckets and one sand)	1	Set			
158	Item 1.159	CODE NO:NPSR- 35 Supply and fixing of 11KV danger board as per standard with all fixing accessories etc.	2	Nos.			
159	Item 1.160	CODE NO:NPSR-36 Supply of 11KV Rubber gloves.	1	Set			
160	Item 1.161	CODE NO:NPSR- 37 Supply of 1.1KV Rubber gloves.	1	Set			
161	Item 1.162	CODE NO:NPSR- 38 Supply of Rubber mats.	4	Mtr			
162	Item 1.163	CODE NO:NPSR- 39 Supply and fixing of shock treatment/First Aid treatment chart in Tamil, English and Hindi. All complete with necessary fixing accessories etc.	2	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
163	Item 1.164	CODE NO:NPSR-40 LV Danger board stickers	2	Nos.			
164	Item 1.165	CODE NO:NPSR-41 First aid box	4	Nos.			
165	Item 1.166	CODE NO:NPSR- 42 dry type fire extinguisher -4.5 Kg for electrical room	4	Nos.			
166	Item 1.167	CODE NO:NPSR-43 Supply, delivery, installation and commissioning of Kone lift for 4 persons (272 kg) passenger lift with the following specification - Including 1 Year O & M a) Battery Operated Emergency Light And Alarm Bell b) Call Register Signal And Vf Door Operator c) Landing Push Button In Landing Door Frames d) Automatic Rescue Device e) Stainless Steel Button With S.S. Cover f) Full Car Operating Panel g) Digital Position Indicator 7 Segment Display In Car And Landings h) False Ceiling In Car i) Infra Red Door Screen j) Scaffolding k) 3 Way Intercom / Press And Speak Phone l) Free Service For One Year m) Pit Ladder n) Ss Handrail On Rear Side o) Minor Builders Work	4	Each			
167	Item 1.168	CODE NO:NPSR-44 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver& sunflower green colours) Make: Philips-for lift	90	Nos			
168	Item 1.169	CODE NO:NPSR-45 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KVgrade.-for lift	170	Mtrs			
169	Item 1.170	CODE NO:NPSR-46 Fabrication, supply and installation of tubular street lighting pole of following length fabricated out of MS pipes of various diameters and swaged as per standards.A junction box incorporating 16A 4-way terminal, 6A MCB and other accessories shall be fixed to the pole for loop in & loop out of cable. XLPE cable connection to the lighting fixture at top, 8 SWG copper coil earthing, set of 50mm GI pipe of required length shall be provided at the bottom of the pole for cable entry to the junction box with the following type outreach curved bracket. The bottom of the pole will have a base plate of size 350 x 350 x 10mm MS plate welded to the pole. The base plate shall be fixed on 600 x 600 x 1500 mm deep pedestal in cement concrete 1:2:4, with approved hardware etc., as per directed by the Engineer-in-charge.(rate inclusive of civil works) Padmavathi distributors(inclusive of 12% GST) 3.0 meter with single outreach curved bracket -- K LITE	80	Nos			
170	Item 1.171	CODE NO:NPSR-47 48W LED Street Light Fitting	80	Nos			
171	Item 1.172	CODE NO:NPSR-48 FIRE PROTECTION HOSE REEL SYSTEM Supply, Erection, testing and commissioning of 2pole, AC 3phase / 415volts, 50hz centrifugal monoblock pump with 5.5 KW/ 7.5 HP motor of following pump capacity flow : 7.5lps (450lpm), head : 35mtrs. Pump is with Bronze impeller, SS410 shaft with mechanical seal, Class F insulation, voltage fluctuation ranging from 300 to 440volts. (Civil foundation bed, foundation bolts for pump mounting not in our scope, it is under client scope)	2	set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
172	Item 1.173	CODE NO:NPSR-49 Fabricating, supply, installing, testing and commissioning of auto/manual control panel with DOL starter for electrical motor driven pumps at terrace level. suitable Amps MCCB with suitable HP fully automatic DOL starter with over load protection, digital ammeter, digital voltmeter, hour meter, dry run trip, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for auto/manual ON/OFF operation, Indicator lamp for ON/OFF, START/STOP, R,Y, B indication and TRIP/RESET of 5.5KW/7.5 HP pump	2	set			
173	Item 1.174a	CODE NO:NPSR-50 Supply, laying of following size PVC/XLPE insulated outer sheathed (1100 V grade) alu. armoured, copper conductor cable laid in wall / floor /ceiling with suitable clamps. The rate shall inclusive of suitable double compression glands and crimping socket for the cables 4 Core 16 Sq.mm PVC insulated Cu Cable	40	Mtrs			
174	Item 1.174b	CODE NO:NPSR-51 2 Core 1.5 Sq.mm PVC insulated Cu Cable	40	Mtrs			
175	Item 1.175	CODE NO:NPSR-52 Supplying, installing, G.I. 8 swg Earthing wire shall be run on floor / ceiling / walls, from the equipment to the panel and panel to the nearest Earth pit will be client scope.	40	Mtrs			
176	Item 1.176	CODE NO:NPSR-53 Supplying and fixing of perforated G.I.sheet cable tray with necessary angle iron suspension supports, anchor fasteners etc. complete. Maximum height of suspension shall not exceed 500 mm.Size of the tray shall be suitable for laying the above mentioned cables necessary bends, joints, Tee, Reducers etc., 100mm x 50 mm	40	Mtrs			
177	Item 1.177a	CODE NO:NPSR-54 Supplying, installing, testing and commissioning of MS Pipes conforming to IS 1239 Heavy grade with painting. 100mm nominal dia	12	Mtrs			
178	Item 1.177b	CODE NO:NPSR-55 80mm nominal dia	12	Mtrs			
179	Item 1.177c	CODE NO:NPSR-56 25mm nominal dia	12	Mtrs			
180	Item 1.178a	CODE NO:NPSR-57 Supplying, installing, testing and commissioning of ERW Heavy " C" Class butt weld fittings 100 x 65 mm nominal dia Reducer	2	Nos			
181	Item 1.178b	CODE NO:NPSR-58 80 x 50 mm nominal dia Reducer	2	Nos			
182	Item 1.178c	CODE NO:NPSR-59 100mm nominal dia bend	4	Nos			
183	Item 1.178d	CODE NO:NPSR-60 80mm nominal dia bend	20	Nos			
184	Item 1.178e	CODE NO:NPSR-61 25mm nominal dia elbow	12	Nos			
185	Item 1.179a	CODE NO:NPSR-62 Supply, Installation, testing and commissioning of ASA Class 150, SORF, MS Flange 100mm nominal dia flange	8	Nos			
186	Item 1.179b	CODE NO:NPSR-63 80mm nominal dia flange	16	Nos			
187	Item 1.179c	CODE NO:NPSR-64 25mm nominal dia flange	8	Nos			
188	Item 1.180a	CODE NO:NPSR-65 Supply, Installation, testing and commissioning of following diameter standard lever operated CI, PN : 16, Butterfly Valve 100mm Butterfly Valve	2	Nos			
189	Item 1.180b	CODE NO:NPSR-66 80mm Butterfly valve	4	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
190	Item 1.181	CODE NO:NPSR-67 Supply, Installation, testing and commissioning of following diameter CI body, ball type, flanged non return valve 80mm dia	2	Nos			
191	Item 1.182	CODE NO:NPSR-68 Supply, Installation, testing and commissioning of following diameter expansion bellows 80mm dia	2	Nos			
192	Item 1.183	CODE NO:NPSR-69 Supply, Installation, testing and commissioning of following diameter CI body, Y Strainer 100mm dia	2	Nos			
193	Item 1.184a	CODE NO:NPSR-70 Supplying, installing, testing and commissioning of MS Pipes confirming to IS 1239 Heavy grade with painting. 80mm nominal dia	36	Mtrs			
194	Item 1.184b	CODE NO:NPSR-71 25mm nominal dia	18	Mtrs			
195	Item 1.185	CODE NO:NPSR-72 Supply, Installation, testing and commissioning of 36mtr long hose reel drum with nozzle	10	Nos			
196	Item 1.186	CODE NO:NPSR-73 Supplying, installing, testing and commissioning of ERW Heavy " C" Class butt weld fittings 25mm nominal dia elbow	20	Nos			
197	Item 1.187	CODE NO:NPSR-74 Supply, Installation, testing and commissioning of following diameter forged brass ball valve 25mm dia	10	Nos			
198	Item 1.188	CODE NO:NPSR-75 Supply, fabricating of MS Structural support	160	Kg			
199	Item 1.189	CODE NO:NPSR-76 Fire Extinguishers: Supply, fixing of CO2 4.5kg fire extinguisher	2	Nos			
200	Item 1.190	CODE NO:NPSR-77 Supply, fixing of stored pressure ABC type 6kg fire extinguisher	20	Nos			
201	Item 1.191	CODE NO:NPSR-78 Supply and placed in position fire bucket stand with 4nos of round botom fire buckets	20	Nos			
		Comprehensive development of dobi Khana at Salavaiyar nagar, Lawspet, Puducherry.					
202	Item 2.1	CODE NO: 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	661.07	Cum			
203	Item 2.2	CODE NO: 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil.	123.68	Cum			
204	Item 2.3	CODE NO: 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	471.10	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
205	Item 2.4	CODE NO: 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches,plinth,sides of foundation etc. In layers not exceeding 20cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift.	2907.50	Cum			
206	Item 2.5	CODE NO : NPSR 1 Supplying and filling in plinth with M sand under floors including, watering, ramming consolidating and dressing complete	72.99	Cum			
207	Item 2.6	CODE NO: 2.27D.1 Supplying and filling with gravel (excluding rock) in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or stell rammers, including all leads and lift etc., complete for making play fields, running trees and courtyards.	292.33	Cum			
208	Item 2.7	CODE NO : 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	41.97	Cum			
209	Item 2.8	CODE NO: 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	47.45	Cum			
210	Item 2.9	CODE NO: 5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of entering, shuttering,finishing and reinforcement, including admixtures inrecommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable. - All work upto plinth level	145.10	Cum			
211	Item 2.10	CODE NO: 5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable separately. - All work above plinth level upto floor V level	119.75	Cum			
212	Item 2.11	CODE NO: 5.34.1 Extra for providing richer mixes at all floor levels - Note:- Excess / less cement over the specified cement content used is payable / recoverable separately - Providing M-30 grade concrete instead of M-25 grade BMC / RMC . (Note:- cement content considered in M-30 is @ 340 kg /cum)	67.18	Cum			
213	Item 2.12	CODE NO: 5.22.10 Providing and placing M30 grade cover block for RCC work all levels	12757.25	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
214	Item 2.13	CODE NO: 5.9.1 Centring and shuttering including strutting, propping etc.and removal of form for:Foundations , footings, bases of columns,etc. for mass concrete.	1053.68	Sqm			
215	Item 2.14	CODE NO: 5.9.3 Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings , balconies and access platform	382.71	Sqm			
216	Item 2.15	CODE NO: 5.9.5 Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers.. Using steel sheet with M.S.frames	514.49	Sqm			
217	Item 2.16	CODE NO: 5.9.6 Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars, piers, abutments, posts and struts.	698.26	Sqm			
218	Item 2.17	CODE NO: 5.9.19 Centring and shuttering including strutting, propping etc. and removal of form for: Weather shade, Chajjas, corbels etc..including edges.	66.24	Sqm			
219	Item 2.18	CODE NO: 5.22.6 Steel reinforcement for R.C.C.work including straightening, cutting, bending, placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	29912.04	Kg			
220	Item 2.19	CODE NO: 6.1.2 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	85.63	Cum			
221	Item 2.20	CODE NO: 6.4.1 (Full Brick) Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	310.64	Cum			
222	Item 2.21	CODE NO: 6.13.2 Half Brick Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand) 6 mm dia M.S. bars at every third course of masonry work.	123.00	Sqm			
223	Item 2.22	CODE NO: 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	123.00	Sqm			
224	Item 2.23	CODE NO: 6.15.1 Supplying at site : RCC standards post /struts/ rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs, wherever equired - (cost of earth works in excavation ,concrete works to be paid separately)	7.29	Cum			
225	Item 2.24	CODE NO: 9.1.2V Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Vengai wood.	1.25	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
226	Item 2.25	CODE NO: 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	151.24	Sqm			
227	Item 2.26	CODE NO: 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S.flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	5,057.50	Kg			
228	Item 2.27	CODE NO: 9.53 Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	30.00	Each			
229	Item 2.28	CODE NO: 9.96.1 Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc.complete:- 1200 X 1200mm	167.00	Each			
230	Item 2.29	CODE NO: 9.97.1 Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete : - 300x10mm	32.00	Each			
231	Item 2.30	CODE NO: 9.100.1 Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-125mm	32.00	Each			
232	Item 2.31	CODE NO: 9.165.1A Providing and fixing of 65mm Godrej Navtal lock of 6 levers etc complete	62.00	each			
233	Item 2.32	CODE NO: 10.11.1 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators , side /top/centre hung, with beading and all members such as F7D,F4B,K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings , complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size)	654.00	Kg			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
234	Item 2.33	CODE NO: 11.40.2 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 600x600 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete Providing and laying rectified ceramic sqm 1,001.26 rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours , shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	353.7	Sqm			
235	Item 2.34	CODE NO: 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	368.55	Sqm			
236	Item 2.35	CODE NO: 12.20 Providing and laying pressed clay tiles (as per approved pattern) 18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	412.0844	Sqm			
237	Item 2.36	CODE NO: 10.17 Providing and fixing M.S.fan clamp type I or II of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C.slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	25	Each			
238	Item 2.37	CODE NO: 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	36.86	Cum			
239	Item 2.38	CODE NO: 13.8.2 15 mm cement plaster on rough side of single or halfbrick wall finished with a floating coat of neat cement of mix - 1:4 (1 cement: 4 fine sand)	1537.58	Sqm			
240	Item 2.39	CODE NO: 13.1.2 12mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	822.60	Sqm			
241	Item 2.40	CODE NO: 13.22 Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	822.60	Sqm			
242	Item 2.41	CODE NO: 13.9.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	27.00	Sqm			
243	Item 2.42	CODE NO: 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	294.75	Sqm			
244	Item 2.43	CODE NO: 13.29.1 18mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand)- Flush Band.	378.30	Cm / per / metre			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
245	Item 2.44	CODE NO: 13.37.1 White washing with lime to give on even shade - New work (three or more coats).	424.90	Sqm			
246	Item 2.45	CODE NO: 13.48.1 Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacture's specification -Two or more coats applied on walls @ 1.25 ltr / 10 sqm over and including one coat of special primer applied @ 0.75 ltr / 10 sqm	2577.70	sqm			
247	Item 2.46	CODE NO: 13.48.3 Painting steel work with deluxe multisurface paint to give an even shade. Two or more coat applied @ 0.90 ltr / 10 sqm over an under coat of primer applied @ 0.80 ltr / 10 sqm of approved brand and manufacture	334.86	sqm			
248	Item 2.47	CODE NO: 13.50.1 Applying priming coat - with ready mixed pink pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	126.04	Sqm			
249	Item 2.48	CODE NO: 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	560.60	Sqm			
250	Item 2.49	CODE NO: 16.68 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and approved size and desing/shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sasnd etc. all complete.	1271.00	Sqm			
251	Item 2.50	CODE NO: 10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	6570.82	Kg			
252	Item 2.51	CODE NO: 12.1.1 Providing corrugated G.S sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I limpet washers or with G.I limpet washers filled with white lead including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete,exciuding the cost of purlins rafters and trusses and including cutting to size and shape wherever required -1.00 mm thicks with zinc coating not less than 275 gm/ sq.m	425.73	Sqm			
253	Item 2.52	CODE NO: 12.4.1 Providing ridges or hips of width 60 cm metre 594.84 overall width plain G.S.sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I.limpet and bitumen washers complete - 0.80mm thick with zinc coating not less than 275 gm /sq.m	15.41	Rmt			
254	Item 2.53	CODE NO: 13.7.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	34.16	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
255	Item 2.54	CODE NO: 12.75 Providing and laying water proofing for roof portion - Clean the surface using wire brush to remove fungus sticking on the tile surface . Remove the laitance and plaster residues with a chisel & hammer and repair any broken structure with civil work . Apply one coat MACRYL SL (Acrylic penetrating primer) Lay one coat of 3-4 mm thick MATPROOF ACR (Fibre reinforced Acrylic plaster) Elastomeric plaster on the flat area . Provide a seal coat with a flexible MACRYL again	30.00	Sqm			
256	Item 2.55	CODE NO: 19.32.1A Making soak pit 2.5 m diameter 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per stadard design with F.P.S.bricks	3	each			
257	Item 2.56	CODE NO: 11.40.1 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the anufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours, shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	161.52	Sqm			
258	Item 2.57	CODE NO: 11.36C Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours, shades of size 300 x 600 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 300x600 mm	179.52	Sqm			
259	Item 2.58	CODE NO: 19.30.3.1 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 4 coarse sand) C.I.cover with frame (light duty) 455 x 610 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete extra complete as per standard design - inside dimensions 600 x 850 mm and 45 cm deep for pipe line with three or more inlets - with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.	6.00	each			
260	Item 2.59	CODE NO: 15.2.2 Nominal concrete 1:4:8 or leaner mix cum 693.28 (including equivalent design mix)	57.51	Cum			
261	Item 2.60	CODE NO: 15.3 Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	58.81	Cum			
262	Item 2.61	CODE NO: 15.5 Extra for cutting reinforcement bars manually / by mechanical means in R.C.C or R.B work (payment shall be made on the cross sectional area of R.C.C. or R.B.work)	198.60	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
263	Item 2.62	CODE NO: 15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead - in cement mortar	31.15	Cum			
264	Item 2.63	CODE NO: 15.12.2 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead - of area beyond 3 sq.metres	27.00	Each			
265	Item 2.64	CODE NO: 14.43 Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scarches etc.complete	890.40	Sqm			
266	Item 2.65	CODE NO: 14.75 Repair to plaster of thickness 12mm to 20mm in patches of area 2.5sqm and under including cutting the patch in proper shape , raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar , including disposal of rubbish , all complete.	57.78	Sqm			
267	Item 2.66	CODE NO: 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank for domestic water - Circular Tank	10000	Litre			
268	Item 2.67	CODE NO: 18.62.3 Providing and fixing PTMT Ball cock of approved quality colour and make complete with Epoxy coatd aliminium rod with L.P / H.P.H.D.plastic ball - 25 mm nominal bore, 152 mm long, weighing not less than 440 gms	4	Each			
269	Item 2.68	CODE NO: 18.17.4 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 50mm nominal bore	4	Each			
270	Item 2.69	CODE NO: 18.18.3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 25mm nominal bore	40	Each			
271	Item 2.70	CODE NO: NPSR 2 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 32mm nominal bore	30	Each			
272	Item 2.71	CODE NO: 18.9.11 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 20mm nominal outer dia pipes	100	Mtrs.			
273	Item 2.72	CODE NO: 18.9.12 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	110	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
274	Item 2.73	CODE NO: 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 40mm nominal outer dia pipes	50	Mtrs.			
275	Item 2.74	CODE NO: NPSR 3 Providing, fixing, testing and commissioning of PVC multi inlet floor trap / p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete 1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors. 110mm dia inlet 75mm dia out let - Floor Trap	20	Each			
276	Item 2.75	CODE NO: 19.33.1 Providing and fixing on wall /column face unplasticised - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter.	80	Mtrs.			
277	Item 2.76	CODE NO: 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings/accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion - Single tee with door - 110x110x110mm	12	Each			
278	Item 2.77	CODE NO: 19.33.1D Providing and fixing on wall face /column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend with door 110mm	12	Each			
279	Item 2.78	CODE NO: 19.33.2 Providing and fixing on wall / column face unplasticised - PVC soil and waste pipes (type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	50	Mtrs.			
280	Item 2.79	CODE NO: 19.33.2A Providing and fixing on wall/column face unplasticised - PVC moulded fittings /accessories for unplasticised - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	10	Each			
281	Item 2.80	CODE NO: 19.33.2F Providing and fixing on wall face / column face unplasticised - PVC moulded fittings /accessories for unplasticised PVC soil and waste pipes conforming to IS:4985 including of jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - bend with door 75 mm.	10	Each			
282	Item 2.81	CODE NO: 12.43.1 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 75mm	14	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
283	Item 2.82	CODE NO: 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 110mm	41	Each			
284	Item 2.83	CODE NO: 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	12	Each			
285	Item 2.84	CODE NO: 17.18.2 Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -coloured	12	Each			
286	Item 2.85	CODE NO: 17.20.2 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete - black solid plastic seat with lid	12	Each			
287	Item 2.86	CODE NO: 17.25.2 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings -angle back wash basin of size 600x480mm	4	Each			
288	Item 2.87	CODE NO: 18.53.1 Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	16	Each			
289	Item 2.88	CODE NO: NPSR 4 Providing, fixing, testing and commissioning of PVC multi inlet floor trap/ p trap of self cleansing design moulded or fabricated, if not available insize mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors.110mm dia inlet 110mm dia out let - P Trap	12	Each			
290	Item 2.89	CODE NO: 18.49.1 Providing and fixing CP brass bib cock of approved quality conforming to IS 8931 - 15mm nominal bore.	4	Each			
291	Item 2.90	CODE NO: 18.22.1 Providing and fixing CP brass shower rose with 15 or20 mm inlet 100 mm diameter.	2	Each			
292	Item 2.91	CODE NO: 18.51.1 Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms - 15mm nominal bore.for kitchen	4	Each			
293	Item 2.92	CODE NO: 17.73.2 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gm.	4	Each			
294	Item 2.93	CODE NO: 18.65 Providing and fixing PTMT soap dish holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements weighing not less than 106 grams.	4	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
295	Item 2.94	CODE NO: 18.56.1 Providing and fixing PTMT pillar cock of approved quality and colour - 15 mm nominal bore , 107 mm long, weighing not less than 110 gms	4	Each			
296	Item 2.95	CODE NO: 18.57.2 Providing and fixing PTMT , push cock of approved quality and colour - 15 mm nominal bore, 80 mm long, weighing not less than 46gms	4	Each			
297	Item 2.96	CODE NO: 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110mm diameter	46	Metre			
298	Item 2.97	CODE NO: 12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	22	Each			
299	Item 2.98	CODE NO: 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	12	Each			
300	Item 2.99	CODE NO: 12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams	8	Each			
301	Item 2.100	CODE NO: 1.10.1 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.Group (A)	250	Point			
302	Item 2.101	CODE NO: 1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	40	Nos			
303	Item 2.102	CODE NO: 1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	8	point			
304	Item 2.103	CODE NO: NPSR 5 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	130	Nos			
305	Item 2.104	CODE NO: NPSR 6 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 6/16 A modular socket outlet and 6/16 A modular switch, connections etc. as required.	60	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
306	Item 2.105	CODE NO: 1.22.4 Supplying and fixing metal box of following sizes (nominal per size) on surface or inrecess with suitable size of phenolic laminated sheet cover in front including painting etc.as required - 150 mm x 150 mm x 60 mm deep	165	Nos			
307	Item 2.106	CODE NO: 1.14.2 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 2.5 sq.mm + 1 x 2.5 sq.mm earth	980	Mtr			
308	Item 2.107	CODE NO: 1.14.3 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2 X 4 sq.mm + 1 x 4 sq.mm earth wire	920	Mtr			
309	Item 2.108	CODE NO: 1.14.4 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 6 sq.mm + 1 x 6 sq.mm earth wire	420	Mtr			
310	Item 2.109	CODE NO: 1.1.2.2 Supplying and laying of following size of PVC conduit in roof slab alongwith the accessories. Make:Avonplast / Vijaya:- 25mm dia	700	Mtr			
311	Item 2.110	CODE NO: 2.5.1 Supplying and fixing of following ways surface / recess mounting, vertical type, 415 V, TPN MCB distribution board of sherrt steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB'S (but without MCB,S (but without MCB's and incomer) as required. (note : Vertical type MCB TPDB is normally usd where 3 phase utlets are required) - 4 way (4 + 12) , double door	2	Nos.			
312	Item 2.111	CODE NO: 2.3.2 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 8 way, double door	20	Nos.			
313	Item 2.112	CODE NO: 2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 12 way, double door	2	Nos.			
314	Item 2.113	CODE NO: 2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. -Single Pole	120	Nos.			
315	Item 2.114	CODE NO: 2.10.3 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. - Double Pole	2	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
316	Item 2.115	CODE NO: NPSR 7 Supplying and fixing 40 amps to 63 amps rating, Triple pole, 415 volts, 'c' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make: Siemens/ABB/L&T Hager	5	Nos.			
317	Item 2.116	CODE NO: NPSR 8 Supplying and fixing 40 amps to 63 amps rating, 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	5	Nos.			
318	Item 2.117	CODE NO: NPSR 9 Supplying and fixing 100 amps rating, 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	3	Nos.			
319	Item 2.118	CODE NO: 2.14.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required - 25 A	3	Nos.			
320	Item 2.119	CODE NO: 2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40A	20	Nos.			
321	Item 2.120	CODE NO: NPSR 10 Supply and fixing of surface mounting, batten type 20W LED tube light (Four feet) luminaire with efficient driver (efficiency shall be more than 90%) & required minimum of 600 lumens output, comprising of high quality diffuser technology complete with efficient & constant current output driver suitable for operation on 230V, single phase, 50Hz AC supply, efficient heat sink, effective thermal management and with colour temperature shall be >5000K. The LED with suitable control gear and power factor >0.9, and necessary fixing accessories as required. Make: Philips - Smart light BN021C LED20S PSC CW GR52 or similar Wipro or equivalent	20	Nos.			
322	Item 2.121	CODE NO: NPSR 11 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver & sunflower green colours) Make: Philips	2	Nos.			
323	Item 2.122	CODE NO: NPSR 12 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	20	Mtrs.			
324	Item 2.123	CODE NO: 9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 4 X25 sq.mm (28 mm)	5	Set			
325	Item 2.124	CODE NO: 5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required	10	Set.			
326	Item 2.125	CODE NO: NPSR 13 Supply and laying of earthing and cable gland earthing using 10 SWG copper wire.	40	Mtr			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
327	Item 2.126	CODE NO: NPSR 14 Supply of 11KV 3Cx185 Sq.mm HT XLPE Aluminium armoured ug cable, without any cable joint. all complete as per specifications, drawings and / or as required by the PED.	6	Mtrs.			
328	Item 2.127	CODE NO: NPSR 15 Supply and providing of 11KV indoor type heat shrinkable end termination suitable for 3Cx185 Sq.mm HT XLPE aluminium ug cable. All complete as per specifications, drawing and/or as required by PED.	1	Nos.			
329	Item 2.128	CODE NO: 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.as required - above 120 sq.mm and upto 400 sq.mm	6	Mtrs.			
330	Item 2.129	CODE NO: NPSR 16 Supply of 3 1/2 x 300sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	10	Mtrs.			
331	Item 2.130	CODE NO: NPSR 17 Supply of 3 1/2 x 240sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	36	Mtrs.			
332	Item 2.131	CODE NO: NPSR 18 Supply of 4 x6 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	18	Mtrs.			
333	Item 2.132	CODE NO: NPSR 19 Supply of 4 x4 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	42	Mtrs.			
334	Item 2.133	CODE NO: NPSR 20 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 4 sq. mm	4	Set			
335	Item 2.134	CODE NO: NPSR 21 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 6 sq. mm	2	Set			
336	Item 2.135	CODE NO: 9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X240 sq.mm (62 mm)	5	Set			
337	Item 2.136	CODE NO: 9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X300 sq.mm (70 mm)	2	Set			
338	Item 2.137	CODE NO: 7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - above 185 sq.mm and upto 400 sq.mm	20	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
339	Item 2.138	CODE NO: 7.2.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning , protective covering and refilling the trench etc. as required - above 185 sq.mm and upto 400 sq.mm	30	Mtrs.			
340	Item 2.139	CODE NO: 7.1.1 Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - Upto 35 sq.mm	30	Mtrs.			
341	Item 2.140	CODE NO: NPSR 22 Supply and erection of 2.1 Mtr. height 50mm diameter GI Poles around the HT switchgear/Transformer yard and laid with 25x25mm welded mesh with 2 coats of Alminum paint on it. The pole to pole gap will be maintained as 2.25Mts max. (1/5th of the Pole will be embedded in the ground). The item including required civil works and kerb wall etc.	10	Sq.mts			
342	Item 2.141	CODE NO : NPSR 23 Supply, installation, testing and commissioning of out door type (IP 65) LT Feeder Pillar fabricated with 14G CRCA sheet steel and powder coated, aluminium busbars, provision for incoming and outgoing cable terminations, the incoming and outgoing switchgears are as per the followings. The items including necessary control wiring, safety features, lock & key / sealing arrangements, minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete with necessary fixing accessories etc. All complete as required by PED standards & specifications. 4 Way LT Feeder Pillar Incoming: 400A TPN MCCB - 1 no. Outgoing: 200A TPN FUSE - 4 nos.	1	Set			
343	Item 2.142	CODE NO : NPSR 24 Supply, installation, testing and commissioning of 415V metering panel board fabricated with 14G CRCA sheet steel, powder coated with siemens gray (RAL7032 IS-5) after seven tank process, complete with aluminium bus bars (the clearance shall not less than 25 mm for phase-phase and 19mm for phase- neutral/earth), 3.15mm sheet steel or 40x40x6mm MS angle for load bearing members, lifting hooks, MS base frame of 75mm height incomers and outgoing switchgear as below. The item including cost of supply and fixing of 3-phase energy meters, necessary sealing arrangements, 25x3mm GI earthing throughout the bottom length, 6 sq.mm FRLS copper wire inter connections for compartment earthing, complete copper control wiring with crimping type ferrules, copper lugs, proper engraving sheet to be fixed on each outgoing etc. Also the cost inclusive of minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete as per specifications, drawing and/or as required by CEA/PED. The contractor shall submit general arrangement & control wiring drawings and get approval from site Engineer/Consultant before commence the fabrication works. Note:panels costing should be as per sld & with respect to PED standards Metering Panel Incomer : 200A TPN FSU : 1 no. Outgoings : 20 Sets each comprising of: a) 40A DP Fuse cut outs with neutral link.	1	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
		b) Single phase Energy meter as per PED requirement. c) 40A DP MCB (C - curve 10KA) 1 Sets each comprising of: a) 63A TPN Fuse cut outs with neutral link. b) Dummy chamber for Fixing three phase energy Energy meter as per PED requirement. c) 63A FP MCB (C - curve 10KA)					
344	Item 2.143	CODE NO : NPSR 25 Incomer 200A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 200/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 200A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 100A, TPN, FSU - 2 Nos 63A, TPN, FSU - 2 Nos	1	Set			
345	Item 2.144	CODE NO : NPSR 26 Incomer 63A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 63/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 63A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A /sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 32A, TPN, MCB - 2 Nos Timer switch (daily)/ digital time switches daily programme with standby battery (3years) 2 channel . Make:L&T-Hagger/Legrand-Lexic - 2 Nos	1	Set			
346	Item 2.145	CODE NO: 14.4 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5m, including getting out the excavated soil, refilling with sand and good soil after laying of cable / pipe etc. in layers of 20cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters(750mm(d)x750mm(w))	20	cum			
347	Item 2.146	CODE NO: NPSR 27 Providing earthen cable trenches, including necessary excavation, supply and placing in position of sand, bricks / PCC protective slabs, cable markers and backfilling in compacted layers, all complete as per specifications, drawings and /or as directed by the Engineer. 450 mm wide x 600 mm deep for LT cables	6	Mtrs.			
348	Item 2.147	CODE NO: NPSR 28 Supply and installation of inspection chamber of 750mm x 750mm x 750mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	4	Nos			
349	Item 2.148	CODE NO: NPSR 29 Supply and installation of inspection chamber of 600mm x 600mm x 600mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	4	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
350	Item 2.149	CODE NO: 19.6.2 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete -150 mm dia RCC pipe	12	Mtrs.			
351	Item 2.150	CODE NO: 19.6.4 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete - 300 mm dia RCC pipe.	4	Mtrs.			
352	Item 2.151	CODE NO: 31.160.1K Providing, laying and jointing UPVC pipes (Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa) conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 160mm dia.	18	Mtrs.			
353	Item 2.152	CODE NO: 31.160.1G Providing, laying and jointing UPVC pipes (Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa) conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 75mm dia.	16	Mtrs.			
354	Item 2.153	CODE NO: 5.4 Earthing with G.I.earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc.but without charcoal / coke and salt as required	1	Set.			
355	Item 2.154	CODE NO: 5.6 Earthing with copper earth plate 600 mm x 600 mm x 3 mm per thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal / coke and salt as required	1	Set.			
356	Item 2.155	CODE NO: NPSR 30 Supply and laying of 25 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	72	Mtr			
357	Item 2.156	CODE NO: NPSR 31 Supply and laying of 40 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	12	Mtr			
358	Item 2.157	CODE NO: NPSR 32 Supply and providing the following safty items as per the requirements of satutory authorities: Fire Bucket with sand(4 buckets and one sand)	1	Set			
359	Item 2.158	CODE NO: NPSR 33 Supply and fixing of 11KV danger board as per standard with all fixing accessories etc.	1	Nos.			
360	Item 2.159	CODE NO: NPSR 34 Supply of 11KV Rubber gloves.	1	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
361	Item 2.160	CODE NO: NPSR 35 Supply of 1.1KV Rubber gloves.	1	Set			
362	Item 2.161	CODE NO: NPSR 36 Supply of Rubber mats.	1	Mtr			
363	Item 2.162	CODE NO: NPSR 37 Supply and fixing of shock treatment/First Aid treatment chart in Tamil, English and Hindi. All complete with necessary fixing accessories etc.	1	Nos.			
364	Item 2.163	CODE NO: NPSR 38 LV Danger board stickers	1	Nos.			
365	Item 2.164	CODE NO: NPSR 39 First aid box	1	Nos.			
366	Item 2.165	CODE NO: NPSR 40 Dry type fire extinguisher -4.5 Kg for electrical room	1.00	Nos.			
367	Item 2.166	CODE NO: NPSR 41 Supply, installation ,testing and commissioning of sewage cutter pump to be fixing in existing septic tank for pumping sewage waste to proposed STP with control pansories as required	1.00	Nos.			
		Comprehensive development of dobi Khana at Ramalinga nagar, Vaithikuppam, Puducherry.					
368	Item 3.1	CODE NO: 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	464.82	Cum			
369	Item 3.2	CODE NO: 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil.	76.50	Cum			
370	Item 3.3	CODE NO: 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	268.34	Cum			
371	Item 3.4	CODE NO: 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches,plinth,sides of foundation etc. In layers not exceeding 20cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	3953.58	Cum			
372	Item 3.5	CODE NO: NPSR-1 Supplying and filling in plinth with M sand under floors including, watering, ramming consolidating and dressing complete	52.80	Cum			
373	Item 3.6	CODE NO: 2.27D.1 Supplying and filling with gravel (excluding rock) in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or stell rammers, including all leads and lift etc., complete for making play fields, running trees and courtyards.	72.14	Cum			
374	Item 3.7	CODE NO:4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	18.19	Cum			
375	Item 3.8	CODE NO: 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	69.08	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
376	Item 3.9	CODE NO: 5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of entering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable. - All work upto plinth level	109.11	Cum			
377	Item 3.10	CODE NO: 5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable separately. - All work above plinth level upto floor V level	127.30	Cum			
378	Item 3.11	CODE NO: 5.22.10 Providing and placing M30 grade cover block for RCC work all levels	12754.74	Nos			
379	Item 3.12	CODE NO: 5.9.1 Centring and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	823.31	Sqm			
380	Item 3.13	CODE NO: 5.9.3 Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings, balconies and access platform	346.01	Sqm			
381	Item 3.14	CODE NO: 5.9.5 Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers. Using steel sheet with M.S. frames	591.40	Sqm			
382	Item 3.15	CODE NO: 5.9.6 Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars, piers, abutments, posts and struts.	435.720	Sqm			
383	Item 3.16	CODE NO: 5.9.19 Centring and shuttering including strutting, propping etc. and removal of form for: Weather shade, Chajjas, corbels etc., including edges.	48.96	Sqm			
384	Item 3.17	CODE NO: 5.22.6 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level - Thermo-Mechanically treated bars (Approved make) Fe - 415 or more	25613.35	Kg			
385	Item 3.18	CODE NO: 6.1.2 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	69.41	Cum			
386	Item 3.19	CODE NO: 6.4.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	372.35	Cum			
387	Item 3.20	CODE NO: 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand) 6 mm dia M.S. bars at every third course of masonry work	76.09	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
388	Item 3.21	CODE NO: 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	76.09	Sqm			
389	Item 3.22	CODE NO:16.15.1 Supplying at site : RCC standards post / struts/ rails/ pales of mix 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs, wherever required - (cost of earth works in excavation ,concrete works to be paid separately)	3.67	Cum			
390	Item 3.23	CODE NO:16.68 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and approved size and desing/shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sasnd etc. all complete.	317.34	Sqm			
391	Item 3.24	CODE NO: 9.1.2V Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Vengai wood.	0.83	Cum			
392	Item 3.25	CODE NO: 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	42.04	Sqm			
393	Item 3.26	CODE NO: 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S.flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	3122.5	Kg			
394	Item 3.27	CODE NO: 9.53 Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	20	Each			
395	Item 3.28	CODE NO: 9.96.1 Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc.complete:- 1200 X 1200mm	167	Each			
396	Item 3.29	CODE NO: 9.97.1 Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete : - 300x10mm	22	Each			
397	Item 3.30	CODE NO: 9.100.1 Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-125mm	22.00	Each			
398	Item 3.31	CODE NO: 9.165.1A Providing and fixing of 65mm Godrej Navtal lock of 6 levers etc complete	42	each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
399	Item 3.32	CODE NO:10.6.1 Supplying and fixing rolling shutters of approved make, made of required size M.S.laths, interlocked together through their entire length and jointed together at the end by end locks , mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to ISS :4454 -part 1 and M.S.top cover of required thickness for rolling shutters - 80 x 1.25mm M.S.laths with 1.25 mm thick top cover	17.28	sqm			
400	Item 3.33	CODE NO: 10.11.1 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators , side /top/centre hung, with beading and all members such as F7D,F4B,K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings , complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size)	438.00	Kg			
401	Item 3.34	CODE NO: 11.40.2 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 600x600 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete Providing and laying rectified ceramic sqm 1,001.26 rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours , shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	471.4400	Sqm			
402	Item 3.35	CODE NO: 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	389.21	Sqm			
403	Item 3.36	CODE NO: 12.20 Providing and laying pressed clay tiles (as per approved pattern)18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	428.26	Sqm			
404	Item 3.37	CODE NO: 10.17 Providing and fixing M.S.fan clamp type I or II of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C.slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	18.00	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
405	Item 3.38	CODE NO: 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	38.92	Cum			
406	Item 3.39	CODE NO: 13.8.2 15 mm cement plaster on rough side of single or halfbrick wall finished with a floating coat of neat cement of mix - 1:4 (1 cement: 4 fine sand)	1423.02	Sqm			
407	Item 3.40	CODE NO: 13.1.2 12mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	544.41	Sqm			
408	Item 3.41	CODE NO:13.22 Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	677.12	Sqm			
409	Item 3.42	CODE NO: 13.9.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	7.2	Sqm			
410	Item 3.43	CODE NO: 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	346.16	Sqm			
411	Item 3.44	CODE NO: 13.29.1 18mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand)- Flush Band.	377.25	Cm / per / metre			
412	Item 3.45	CODE NO: 13.37.1 White washing with lime to give on even shade - New work (three or more coats).	407.11	Sqm			
413	Item 3.46	CODE NO: 13.48.1 Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacture's specification -Two or more coats applied on walls @ 1.25 ltr / 10 sqm over and including one coat of special primer applied @ 0.75 ltr / 10 sqm	1341.95	sqm			
414	Item 3.47	CODE NO: 13.48.3 Painting steel work with deluxe multisurface paint to give an even shade. Two or more coat applied @ 0.90 ltr / 10 sqm over an under coat of primer applied @ 0.80 ltr / 10 sqm of approved brand and manufacture	243.9	sqm			
415	Item 3.48	CODE NO: 13.50.1 Applying priming coat - with ready mixed pink pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	84.04	Sqm			
416	Item 3.49	CODE NO: 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	430.00	Sqm			
417	Item 3.50	CODE NO: 15.2.2 Nominal concrete 1:4:8 or leaner mix cum 693.28(including equivalent design mix)	49.79	Cum			
418	Item 3.51	CODE NO: 15.3 Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	77.39	Cum			
419	Item 3.52	CODE NO: 15.5 Extra for cutting reinforcement bars manually / by mechanical means in R.C.C or R.B work (payment shall be made on the cross sectional area of R.C.C. or R.B.work)	272.52	Sqm			
420	Item 3.53	CODE NO: 15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead - in cement mortar	78.76	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
421	Item 3.54	CODE NO: 15.12.2 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead - of area beyond 3 sq.metres	19.00	Each			
422	Item 3.55	CODE NO: 14.43 Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scarches etc.complete	851.44	Sqm			
423	Item 3.56	CODE NO: 11.40.1 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours, shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	135.00	Sqm			
424	Item 3.57	CODE NO: 12.1.1 Providing corrugated G.S sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I limpet washers or with G.I limpet washers filled with white lead including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete,excluding the cost of purlins rafters and trusses and including cutting to size and shape wherever required -1.00 mm thicks with zinc coating not less than 275 gm/ sq.m	135	Sqm			
425	Item 3.58	CODE NO: 14.75 Repair to plaster of thickness 12mm to 20mm in patches of area 2.5sqm and under including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar , including disposal of rubbish,all complete	344.8	Sqm			
426	Item 3.59	CODE NO:18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank for domestic water - Circular Tank	10000	Litre			
427	Item 3.60	CODE NO:18.62.3 Providing and fixing PTMT Ball cock of approved quality colour and make complete with Epoxy coatd aliminium rod with L.P / H.P.H.D.plastic ball - 25 mm nominal bore, 152 mm long, weighing not less than 440 gms	4	Each			
428	Item 3.61	CODE NO:18.17.4 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 50mm nominal bore	4	Each			
429	Item 3.62	CODE NO:18.18.3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 25mm nominal bore	12	Each			
430	Item 3.63	CODE NO:NPSR -2 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 32mm nominal bore	12	Each			
431	Item 3.64	CODE NO:18.9.11 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 20mm nominal outer dia pipes	100	Mtrs.			
432	Item 3.65	CODE NO:18.9.12 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	110	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
433	Item 3.66	CODE NO: 18.9.14 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 40mm nominal outer dia pipes	50	Mtrs.			
434	Item 3.67	CODE NO: NPSR - 3 Providing, fixing, testing and commissioning of PVC multi inlet floor trap / p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete 1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors. 110mm dia inlet 75mm dia out let - Floor Trap	14	Each			
435	Item 3.68	CODE NO: 19.33.1 Providing and fixing on wall /column face unplasticed - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter.	80	Mtrs.			
436	Item 3.69	CODE NO: 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings/accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion - Single tee with door - 110x110x110mm	12	Each			
437	Item 3.70	CODE NO: 19.33.1D Providing and fixing on wall face /column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend with door 110mm	12	Each			
438	Item 3.71	CODE NO: 19.33.2 Providing and fixing on wall / column face unplasticised - PVC soil and waste pipes (type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	50	Mtrs.			
439	Item 3.72	CODE NO: 19.33.2A Providing and fixing on wall/column face unplasticisd - PVC moulded fittings /accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	12	Each			
440	Item 3.73	CODE NO: 19.33.2F Providing and fixing on wall face / column face unplasticised - PVC moulded fittings /accessories for unplasticised PVC soil and waste pipes conforming to IS:4985 including of jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - bend with door 75 mm.	12	Each			
441	Item 3.74	CODE NO: 12.43.1 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 75mm	12	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
442	Item 3.75	CODE NO:12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 110mm	37	Each			
443	Item 3.76	CODE NO: 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	12	Each			
444	Item 3.77	CODE NO: 17.18.2 Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -coloured	12	Each			
445	Item 3.78	CODE NO: 17.20.2 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete - black solid plastic seat with lid	12	Each			
446	Item 3.79	CODE NO: 17.25.2 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings –angle back wash basin of size 600x480mm	4	Each			
447	Item 3.80	CODE NO: 18.53.1 Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	16	Each			
448	Item 3.81	CODE NO: NPSR - 4 Providing, fixing, testing and commissioning of PVC multi inlet floor trap/ p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete 1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors.110mm dia inlet 110mm dia out let - P Trap	12	Each			
449	Item 3.82	CODE NO: 18.49.1 Providing and fixing CP brass bib cock of approved quality conforming to IS 8931 - 15mm nominal bore.	4	Each			
450	Item 3.83	CODE NO: 18.22.1 Providing and fixing CP brass shower rose with 15 or 20 mm inlet 100 mm diameter.	2	Each			
451	Item 3.84	CODE NO: 18.51.1 Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms - 15mm nominal bore.for kitchen	4	Each			
452	Item 3.85	CODE NO: 17.73.2 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gm.	4	Each			
453	Item 3.86	CODE NO: 18.65 Providing and fixing PTMT soap dish holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements weighing not less than 106 grams.	4	Each			
454	Item 3.87	CODE NO: 18.56.1 Providing and fixing PTMT pillar cock of approved quality and colour - 15 mm nominal bore , 107 mm long, weighing not less than 110 gms	4	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
455	Item 3.88	CODE NO: 18.57.2 Providing and fixing PTMT , push cock of approved quality and colour - 15 mm nominal bore, 80 mm long, weighing not less than 46gms	4	Each			
456	Item 3.89	CODE NO: 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110mm diameter	46	Metre			
457	Item 3.90	CODE NO: 12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	22	Each			
458	Item 3.91	CODE NO: 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	12	Each			
459	Item 3.92	CODE NO: 12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams	8	Each			
460	Item 3.93	CODE NO:19.32.1A Making soak pit 2.5 m diameter 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per stadard design with F.P.S.bricks	6	each			
461	Item 3.94	CODE NO:19.30.3.1 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I.cover with frame (light duty) 455 x 610 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete extra complete as per standard design - inside dimensions 600 x 850 mm and 45 cm deep for pipe line with three or more inlets - with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	15	each			
462	Item 3.95	CODE NO:24.4.3 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia , conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete , for all depths - 200 mm nominal size dia	90	metre			
463	Item 3.96	CODE NO:31.250.1E Supplying of electrically operated wet type submersible motor and pumpset (Texmo/KSB/Taro/Kirloskar make), AC 3 phase, 415 volts, 50 Hz, 2900-3000 RPM. The pump shall have brass impeller, high grade steel shaft with sufficient stages having outlet size of 2"/2.5"/3" dia. to suit the borewell (150 / 200mm dia.), complete.The rate includes, all taxes, freight, etc., FOR at site in UT of Puducherry. The pumpset shall be guaranteed for a period of one year from the date of commissioning.(10 HP Submersible motor and pumpset).	1	nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
464	Item 3.97	CODE NO: 1.10.1 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.Group (A)	400	Point			
465	Item 3.98	CODE NO: 1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	40	Nos			
466	Item 3.99	CODE NO: 1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	8	point			
467	Item 3.100	CODE NO: NPSR - 5 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	130	Nos			
468	Item 3.101	CODE NO: NPSR - 6 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 6/16 A modular socket outlet and 6/16 A modular switch, connections etc. as required.	60	Nos			
469	Item 3.102	CODE NO: 1.22.4 Supplying and fixing metal box of following sizes (nominal per size) on surface or inrecess with suitable size of phenolic laminated sheet cover in front including painting etc.as required - 150 mm x 150 mm x 60 mm deep	165	Nos			
470	Item 3.103	CODE NO: 1.14.2 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 2.5 sq.mm + 1 x 2.5 sq.mm earth	520	Mtr			
471	Item 3.104	CODE NO: 1.14.3 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2 X 4 sq.mm + 1 x 4 sq.mm earth wire	480	Mtr			
472	Item 3.105	CODE NO: 1.14.4 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 6 sq.mm + 1 x 6 sq.mm earth wire	420	Mtr			
473	Item 3.106	CODE NO: 1.1.2.2 Supplying and laying of following size of PVC conduit in roof slab alongwith the accessories. Make:Avonplast / Vijaya:- 25mm dia	700	Mtr			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
474	Item 3.107	CODE NO: 2.5.1 Supplying and fixing of following ways surface / recess mounting, vertical type, 415 V, TPN MCB distribution board of sherrt steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB'S (but without MCB,S (but without MCB's and incomer) as required. (note : Vertical type MCB TPDB is normally usd where 3 phase utlets are required) - 4 way (4 + 12) , double door	2	Nos.			
475	Item 3.108	CODE NO: 2.3.2 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 8 way, double door	20	Nos.			
476	Item 3.109	CODE NO: 2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 12 way, double door	2	Nos.			
477	Item 3.110	CODE NO: 2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. -Single Pole	120	Nos.			
478	Item 3.111	CODE NO: 2.10.3 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. - Double Pole	2	Nos.			
479	Item 3.112	CODE NO: NPSR-7 Supplying and fixing 40 amps to 63 amps rating, Triple pole, 415 volts, 'c' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:Siemens/ABB/L&T Hager	5	Nos.			
480	Item 3.113	CODE NO: NPSR-8 Supplying and fixing 40 amps to 63 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	5	Nos.			
481	Item 3.114	CODE NO: NPSR-9 Supplying and fixing 100 amps rating, 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	3	Nos.			
482	Item 3.115	CODE NO: 2.14.1 Supplying and fixing following rating, four pole,(three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections , testing and commissioning etc.as required - 25 A	3	Nos.			
483	Item 3.116	CODE NO: 2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.40A	20	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
484	Item 3.117	CODE NO: NPSR-10 Supply and fixing of surface mounting, batten type 20W LED tube light (Four feet) luminaire with efficient driver (efficiency shall be more than 90%) & required minimum of 600 lumens output, comprising of high quality diffuser technology complete with efficient & constant current output driver suitable for operation on 230V, single phase, 50Hz AC supply, efficient heat sink, effective thermal management and with colour temperature shall be >5000K. The LED with suitable control gear and power factor >0.9. and necessary fixing accessories as required. Make: Philips - Smart light BN021C LED20S PSC CW GR52 or similar Wipro or equivalent	20	Nos.			
485	Item 3.118	CODE NO: NPSR-11 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver& sunflower green colours) Make: Philips	2	Nos.			
486	Item 3.119	CODE NO: NPSR-12 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	20	Mtrs.			
487	Item 3.120	CODE NO: 9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 4 X25 sq.mm (28 mm)	5	Set			
488	Item 3.121	CODE NO: 5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required	10	Set.			
489	Item 3.122	CODE NO: NPSR-13 Supply and laying of earthing and cable gland earthing using 10 SWG copper wire.	40	Mtr			
490	Item 3.123	CODE NO: NPSR-14 Supply of 11KV 3Cx185 Sq.mm HT XLPE Aluminium armoured ug cable, without any cable joint. all complete as per specifications, drawings and / or as required by the PED.	6	Mtrs.			
491	Item 3.124	CODE NO: NPSR-15 Supply and providing of 11KV indoor type heat shrinkable end termination suitable for 3Cx185 Sq.mm HT XLPE aluminium ug cable. All complete as per specifications, drawing and/or as required by PED.	1	Nos.			
492	Item 3.125	CODE NO: 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.as required - above 120 sq.mm and upto 400 sq.mm	6	Mtrs.			
493	Item 3.126	CODE NO: NPSR-16 Supply of 3 1/2 x 300sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	10	Mtrs.			
494	Item 3.127	CODE NO: NPSR-17 Supply of 3 1/2 x 240sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	136	Mtrs.			
495	Item 3.128	CODE NO: NPSR-18 Supply of 4 x6 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	18	Mtrs.			
496	Item 3.129	CODE NO: NPSR-19 Supply of 4 x4 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	42	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
497	Item 3.130	CODE NO: NPSR-20 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 4 sq. mm	4	Set			
498	Item 3.131	CODE NO: NPSR-21 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 6 sq. mm	2	Set			
499	Item 3.132	CODE NO: 9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X240 sq.mm (62 mm)	5	Set			
500	Item 3.133	CODE NO: 9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X300 sq.mm (70 mm)	2	Set			
501	Item 3.134	CODE NO: 7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - above 185 sq.mm and upto 400 sq.mm	56	Mtrs.			
502	Item 3.135	CODE NO: 7.2.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning , protective covering and refilling the trench etc. as required - above 185 sq.mm and upto 400 sq.mm	96	Mtrs.			
503	Item 3.136	CODE NO: 7.1.1 Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - Upto 35 sq.mm	66	Mtrs.			
504	Item 3.137	CODE NO: NPSR-22 Supply and erection of 2.1 Mtr. height 50mm diameter GI Poles around the HT switchgear/Transformer yard and laid with 25x25mm welded mesh with 2 coats of Alminum paint on it. The pole to pole gap will be maintained as 2.25Mts max. (1/5th of the Pole will be embedded in the ground). The item including required civil works and kerb wall etc.	10	Sq.mts			
505	Item 3.138	CODE NO: NPSR-23 Supply, installation, testing and commissioning of out door type (IP 65) LT Feeder Pillar fabricated with 14G CRCA sheet steel and powder coated, aluminium busbars, provision for incoming and outgoing cable terminations, the incoming and outgoing switchgears are as per the followings. The items including necessary control wiring, safety features, lock & key / sealing arrangements, minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete with necessary fixing accessories etc. All complete as required by PED standards & specifications. 4 Way LT Feeder Pillar Incoming: 400A TPN MCCB - 1 no. Outgoing: 200A TPN FUSE - 4 nos.	1	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
506	Item 3.139	<p>CODE NO: NPSR-24</p> <p>Supply, installation, testing and commissioning of 415V metering panel board fabricated with 14G CRCA sheet steel, powder coated with siemens gray (RAL7032 IS-5) after seven tank process, complete with aluminium bus bars (the clearance shall not less than 25 mm for phase-phase and 19mm for phase- neutral/earth), 3.15mm sheet steel or 40x40x6mm MS angle for load bearing members, lifting hooks, MS base frame of 75mm height incomers and outgoing switchgear as below. The item including cost of supply and fixing of 3-phase energy meters, necessary sealing arrangements, 25x3mm GI earthing throughout the bottom length, 6 sq.mm FRLS copper wire inter connections for compartment earthing, complete copper control wiring with crimping type ferrules, copper lugs, proper engraving sheet to be fixed on each outgoing etc. Also the cost inclusive of minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete as per specifications, drawing and/or as required by CEA/PED. The contractor shall submit general arrangement & control wiring drawings and get approval from site Engineer/Consultant before commence the fabrication works. Note:panels costing should be as per sld & with respect to PED standards</p> <p>Metering Panel Incomer : 200A TPN FSU : 1 no. Outgoings : 20 Sets each comprising of: a) 40A DP Fuse cut outs with neutral link. b) Single phase Energy meter as per PED requirement. c) 40A DP MCB (C - curve 10KA) 1 Sets each comprising of: a) 63A TPN Fuse cut outs with neutral link. b) Dummy chamber for Fixing three phase energy Energy meter as per PED requirement. c) 63A FP MCB (C - curve 10KA)</p>	1	Set			
507	Item 3.140	<p>CODE NO: NPSR-25</p> <p>COMMON PANEL Incomer</p> <p>200A, TPN, FSU - 1 Nos</p> <p>Phase indication lamps(R,Y,B) - 1 set.</p> <p>CT ratio 200/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set.</p> <p>Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set.</p> <p>Busbar: 200A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat throught the panel length</p> <p>Outgoing: 100A, TPN, FSU - 2 Nos 63A, TPN, FSU - 2 Nos</p>	1	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
508	Item 3.141	<p>CODE NO: NPSR-26 EXTERNAL LIGHTING PANEL</p> <p>Incomer 63A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 63/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 63A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A /sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 32A, TPN, MCB - 2 Nos Timer switch (daily)/ digital time switches daily programme with standby battery (3years) 2 channel . Make:L&T-Hagger/Legrand-Lexic - 2 Nos</p>	1	Set			
509	Item 3.142	<p>CODE NO: 14.4</p> <p>Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5m, including getting out the excavated soil, refilling with sand and good soil after laying of cable / pipe etc. in layers of 20cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters(750mm(d)x750mm(w))</p>	20	cum			
510	Item 3.143	<p>CODE NO: NPSR-27</p> <p>Providing earthen cable trenches, including necessary excavation, supply and placing in position of sand, bricks / PCC protective slabs, cable markers and backfilling in compacted layers, all complete as per specifications, drawings and /or as directed by the Engineer. 450 mm wide x 600 mm deep for LT cables</p>	6	Mtrs.			
511	Item 3.144	<p>CODE NO: NPSR-28</p> <p>Supply and installation of inspection chamber of 750mm x 750mm x 750mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.</p>	4	Nos			
512	Item 3.145	<p>CODE NO: NPSR-29</p> <p>Supply and installation of inspection chamber of 600mm x 600mm x 600mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.</p>	4	Nos			
513	Item 3.146	<p>CODE NO: 19.6.2</p> <p>Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointedwith stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete -150 mm dia RCC pipe</p>	12	Mtrs.			
514	Item 3.147	<p>CODE NO: 19.6.4</p> <p>Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete - 300 mm dia RCC pipe.</p>	4	Mtrs.			
515	Item 3.148	<p>CODE NO: 31.160.1K</p> <p>Providing, laying and jointing UPVC pipes (Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa) conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 160mm dia.</p>	18	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
516	Item 3.149	CODE NO: 31.160.1G Providing, laying and jointing UPVC pipes (Finolex / Jain / Supreme / Truebore / Nandi) (1 Mpa) conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 75mm dia.	16	Mtrs.			
517	Item 3.150	CODE NO: 5.4 Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. but without charcoal / coke and salt as required	1	Set.			
518	Item 3.151	CODE NO: 5.6 Earthing with copper earth plate 600 mm x 600 mm x 3 mm per thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal / coke and salt as required	1	Set.			
519	Item 3.152	CODE NO: NPSR-30 Supply and laying of 25 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	72	Mtr			
520	Item 3.153	CODE NO: NPSR-31 Supply and laying of 40 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	12	Mtr			
521	Item 3.154	CODE NO: NPSR-32 Supply and providing the following safety items as per the requirements of statutory authorities: Fire Bucket with sand (4 buckets and one sand)	1	Set			
522	Item 3.155	CODE NO: NPSR-33 Supply and fixing of 11KV danger board as per standard with all fixing accessories etc.	1	Nos.			
523	Item 3.156	CODE NO: NPSR-34 Supply of 11KV Rubber gloves.	1	Set			
524	Item 3.157	CODE NO: NPSR-35 Supply of 1.1KV Rubber gloves.	1	Set			
525	Item 3.158	CODE NO: NPSR-36 Supply of Rubber mats.	1	Mtr			
526	Item 3.159	CODE NO: NPSR-37 Supply and fixing of shock treatment/First Aid treatment chart in Tamil, English and Hindi. All complete with necessary fixing accessories etc.	1	Nos.			
527	Item 3.160	CODE NO: NPSR-38 LV Danger board stickers	1	Nos.			
528	Item 3.161	CODE NO: NPSR-39 First aid box	1.00	Nos.			
529	Item 3.162	CODE NO: NPSR-40 Dry type fire extinguisher -4.5 Kg for electrical room	1.00	Nos.			
		Comprehensive development of dobi Khana at Marapalam, Mudaliarpet, Puducherry					

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
530	Item 4.1	CODE NO: 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil	1129.15	Cum			
531	Item 4.2	CODE NO: 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	1080.86	Cum			
532	Item 4.3	CODE NO: 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil.	230.79	Cum			
533	Item 4.4	CODE NO: 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches,plinth,sides of foundation etc. In layers not exceeding 20cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	1263.67	Cum			
534	Item 4.5	CODE NO: NPSR-1 Supplying and filling in plinth with M sand under floors including, watering, ramming consolidating and dressing complete	38.51	Cum			
535	Item 4.6	CODE NO: NPSR-2 Providing and laying m. sand and lime mix 1:1 of 150mm consolidated thickness using 0.65cum of M.sand & 0.50cum of gravel for 1cum including cost and conveyance of M. sand and lime to the work site and stacking to the standard departmental gauge for premeasurements, mixing the required quantities of M.sand and lime, spreading watering and compacting the mix with earth rammer including the labour charges for mixing, spreading and compacting etc., completed.	52.05	Cum			
536	Item 4.7	CODE NO: 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level -1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	63.78	Cum			
537	Item 4.8	CODE NO: 4.1.6 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level -1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	64.58	Cum			
538	Item 4.9	CODE NO: 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	37.47	Cum			
539	Item 4.10	CODE NO: 4.2.3 Constructions of granular sub-base by providing coarse graded material, 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 complete as per clause 401 of MoRTH specification, 4th Revision for grading III material.	199.07	Cum			
540	Item 4.11	CODE NO: 5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of entering, shuttering,finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable. - All work upto plinth level	233.26	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
541	Item 4.12	CODE NO: 5.33.2 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS : 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability. Note:- Cement content considered in this item is @ 330 kg / cum. Excess or less cement used as per design mix is payable or recoverable separately. - All work above plinth level upto floor V level	424.52	Cum			
542	Item 4.13	CODE NO: 5.22.10 Providing and placing M30 grade cover block for RCC work all levels	24715.42	Nos			
543	Item 4.14	CODE NO: 5.9.1 Centring and shuttering including strutting, propping etc.and removal of form for:Foundations , footings, bases of columns,etc. for mass concrete.	1476.38	Sqm			
544	Item 4.15	CODE NO: 5.9.3 Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings ,balconies and access platform	1003.03	Sqm			
545	Item 4.16	CODE NO: 5.9.5 Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers.- Using steel sheet with M.S.frames	1999.68	Sqm			
546	Item 4.17	CODE NO: 5.9.6 Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars, piers, abutments, posts and struts.	1018.93	Sqm			
547	Item 4.18	CODE NO: 5.9.7 Centring and shuttering including strutting, propping etc. and removal of form for: Stairs (excluding landings) except spiral - staircases	16.52	Sqm			
548	Item 4.19	CODE NO: 5.9.19 Centring and shuttering including strutting, propping etc. and removal of form for: Weather shade, Chajjas, corbels etc.,including edges.	95.04	Sqm			
549	Item 4.20	CODE NO: 5.16 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	5.04	Cum			
550	Item 4.21	CODE NO: 5.18.1 Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	20.47	Sqm			
551	Item 4.22	CODE NO: 5.22.6 Steel reinforcement for R.C.C.work including straightening, cutting, bending, placing in position and binding all complete upto plinth level - Thermo - Mechanically treated bars (Approved make) Fe - 415 or more	69792.68	Kg			
552	Item 4.23	CODE NO: 6.1.2 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	245.89	Cum			
553	Item 4.24	CODE NO: 6.4.1 Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	487.19	Cum			
554	Item 4.25	CODE NO: 7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with - cement mortar 1:6 (1 cement : 6 coarse sand)	139.96	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
555	Item 4.26	CODE NO: 6.13.2 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:4 (1 cement : 4 coarse sand) 6 mm dia M.S. bars at every third course of masonry work.	707.58	Sqm			
556	Item 4.27	CODE NO: 6.15 Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	603.90	Sqm			
557	Item 4.28	CODE NO: 16.15.1 Supplying at site : RCC standards post / struts/ rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs, wherever required - (cost of earth works in excavation , concrete works to be paid separately)	19949.81	Cum			
558	Item 4.29	CODE NO: 9.1.2V Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Vengai wood.	3.23	Cum			
559	Item 4.30	CODE NO: 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	214.22	Sqm			
560	Item 4.31	CODE NO: 9.48.1 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S.flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to steel windows by welding	3966.50	Kg			
561	Item 4.32	CODE NO: 9.53 Providing 40x5 mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	80.00	Each			
562	Item 4.33	CODE NO: 9.96.1 Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with nuts and screws etc.complete:- 1200 X 1200mm	162.00	Each			
563	Item 4.34	CODE NO: 9.97.1 Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete : - 300x10mm	21.00	Each			
564	Item 4.35	CODE NO: 9.100.1 Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc.complete :-125mm	81.00	Each			
565	Item 4.36	CODE NO: 9.118.1 Providing and fixing to existing door frames -- 24mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+ 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws . The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+ 0.1mm) wall thickness . The lock rail made up of 'H' section, a uPVC hollow section of size 100 x 24 mm and 2 mm (+ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm (+ 0.1mm) wall thickness . They panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification (For W.C. and bathroom door)	64.00	Sqm			
566	Item 4.37	CODE NO: 9.165.1A Providing and fixing of 65mm Godrej Navtal lock of 6 levers etc complete	41.00	each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
567	Item 4.38	CODE NO: 10.25.2 Steel work welded in built up sections / framed work , including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in gratings, frames, guard bar, ladder, railings, brackets,gates and similar works	1608.00	Kg			
568	Item 4.39	CODE NO: 10.11.1 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators , side /top/centre hung, with beading and all members such as F7D,F4B,K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings , complete all as per approved design, (sectional weight of only steel members shall be measured for payment) - Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C.1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size)	1785.00	Kg			
569	Item 4.40	CODE NO: 11.36C Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours, shades of size 300 x 600 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 300x600 mm	618.72	Sqm			
570	Item 4.41	CODE NO: 11.40.1 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the anufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours, shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	149.22	Sqm			
571	Item 4.42	CODE NO: 11.40.2 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 600x600 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete Providing and laying rectified ceramic sqm 1,001.26 rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours , shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	613.26	Sqm			
572	Item 4.43	CODE NO: 12.15.1 Painting top of roofs with bitumen of approved quality @ 17kg per 10 sq.m impregnated with a coat of coarse sand at 60cudm per 10 sq.m including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete - with residual type petroleum bitumen of grade VG-10	436.48	Sqm			
573	Item 4.44	CODE NO: 12.20 Providing and laying pressed clay tiles (as per approved pattern)18mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	460.21	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
574	Item 4.45	CODE NO: 12.75 Providing and laying water proofing for roof portion - Clean the surface using wire brush to remove fungus sticking on the tile surface . Remove the laitance and plaster residues with a chisel & hammer and repair any broken structure with civil work . Apply one coat MACRYL SL (Acrylic penetrating primer) Lay one coat of 3-4 mm thick MATPROOF ACR (Fibre reinforced Acrylic plaster) Elastomeric plaster on the flat area . Provide a seal coat with a flexible MACRYL again	47.64	Sqm			
575	Item 4.46	CODE NO: 10.17 Providing and fixing M.S.fan clamp type I or II of 16mm dia M.S. bar bent to shape with hooked ends in R.C.C.slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	40.00	Each			
576	Item 4.47	CODE NO: 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	43.64	Cum			
577	Item 4.48	CODE NO: 13.8.2 15 mm cement plaster on rough side of single or halfbrick wall finished with a floating coat of neat cement of mix - 1:4 (1 cement: 4 fine sand)	1525.00	Sqm			
578	Item 4.49	CODE NO: 13.1.2 12mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	2234.32	Sqm			
579	Item 4.50	CODE NO :13.22 Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	1556.72	Sqm			
580	Item 4.51	CODE NO: 13.7.1 12mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1 cement :3 fine sand)	15.20	Sqm			
581	Item 4.52	CODE NO: 13.7.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	74.16	Sqm			
582	Item 4.53	CODE NO: 13.9.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	29.60	Sqm			
583	Item 4.54	CODE NO: 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	611.59	Sqm			
584	Item 4.55	CODE NO: 13.29.1 18mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand)- Flush Band.	132.56	Cm / per / metre			
585	Item 4.56	CODE NO: 13.37.1 White washing with lime to give on even shade - New work (three or more coats).	782.60	Sqm			
586	Item 4.57	CODE NO: 13.48.1 Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacture's specification -Two or more coats applied on walls @ 1.25 ltr / 10 sqm over and including one coat of special primer applied @ 0.75 ltr / 10 sqm	3831.50	sqm			
587	Item 4.58	CODE NO: 13.48.3 Painting steel work with deluxe multisurface paint to give an even shade. Two or more coat applied @ 0.90 ltr / 10 sqm over an under coat of primer applied @ 0.80 ltr / 10 sqm of approved brand and manufacture	123.20	sqm			
588	Item 4.59	CODE NO: 13.50.1 Applying priming coat - with ready mixed pink pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	289.40	Sqm			
589	Item 4.60	CODE NO: 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	475.60	Sqm			
590	Item 4.61	CODE NO: 16.68 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and approved size and desing/shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sand etc. all complete.	865.52	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
591	Item 4.62	CODE NO: 10.20 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	10700.00	Kg			
592	Item 4.63	CODE NO: 12.1.1 Providing corrugated G.S sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I limpet washers or with G.I limpet washers filled with white lead including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete, excluding the cost of purlins rafters and trusses and including cutting to size and shape wherever required -1.00 mm thick with zinc coating not less than 275 gm/ sq.m	357.50	Sqm			
593	Item 4.64	CODE NO: 12.4.1 Providing ridges or hips of width 60 cm metre 594.84 overall width plain G.S.sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I.limpet and bitumen washers complete - 0.80mm thick with zinc coating not less than 275 gm /sq.m	36.50	Rmt			
594	Item 4.65	CODE NO: 20.2.1 Boring , providing and installing bored cast -in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring , with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete , including removal of excavated earth with all lifts and leads (length of pile for payment shall be measured upto bottom of pile cap) - 300 mm dia piles	175.00	Rmt			
595	Item 4.66	CODE NO: 19.30.3.1 Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I.cover with frame (light duty) 455 x 610 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete extra complete as per standard design - inside dimensions 600 x 850 mm and 45 cm deep for pipe line with three or more inlets - with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	15.00	each			
596	Item 4.67	CODE NO: 19.32.1A Making soak pit 2.5 m diameter 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per standard design with F.P.S.bricks	6.00	each			
597	Item 4.68	CODE NO: 24.4.3 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia , conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete , for all depths - 200 mm nominal size dia	90.00	metre			
598	Item 4.69	CODE NO: 31.250.1E Supplying of electrically operated wet type submersible motor and pumpset (Texmo/KSB/Taro/Kirloskar make), AC 3 phase, 415 volts, 50 Hz, 2900-3000 RPM. The pump shall have brass impeller, high grade steel shaft with sufficient stages having outlet size of 2"/2.5"/3" dia. to suit the borewell (150 / 200mm dia.), complete.The rate includes, all taxes, freight, etc., FOR at site in UT of Puducherry. The pumpset shall be guaranteed for a period of one year from the date of commissioning.(10 HP Submersible motor and pumpset).	1.00	nos			
599	Item 4.70	CODE NO: 15.2.2 Nominal concrete 1:4:8 or leaner mix cum 693.28 (including equivalent design mix)	104.47	Cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
600	Item 4.71	CODE NO: 15.30 Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	263.05	Cum			
601	Item 4.72	CODE NO: 15.50 Extra for cutting reinforcement bars manually / by mechanical means in R.C.C or R.B work (payment shall be made on the cross sectional area of R.C.C. or R.B.work)	1512.43	Sqm			
602	Item 4.73	CODE NO: 15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead in cement mortar	174.03	Cum			
603	Item 4.74	CODE NO: 15.12.2 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead - of area beyond 3 sq.metres	39.00	Each			
604	Item 4.75	CODE NO: 14.43 Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scarches etc.complete	964.80	Sqm			
605	Item 4.76	CODE NO: 18.48A Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank for domestic water - Circular Tank	18000.00	Litre			
606	Item 4.77	CODE NO: 18.62.3 Providing and fixing PTMT Ball cock of approved quality colour and make complete with Epoxy coated aluminium rod with L.P / H.P.H.D.plastic ball - 25 mm nominal bore, 152 mm long, weighing not less than 440 gms	6.00	Each			
607	Item 4.78	CODE NO: 18.17.4 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 50mm nominal bore	6.00	Each			
608	Item 4.79	CODE NO: 18.18.3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 25mm nominal bore	20.00	Each			
609	Item 4.80	CODE NO: NPSR-3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete - 32mm nominal bore	20.00	Each			
610	Item 4.81	CODE NO: 18.9.11 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 20mm nominal outer dia pipes	120.00	Mtrs.			
611	Item 4.82	CODE NO: 18.9.12 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	140.00	Mtrs.			
612	Item 4.83	CODE NO: 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 40mm nominal outer dia pipes	100.00	Mtrs.			
613	Item 4.84	CODE NO: NPSR-4 Providing, fixing, testing and commissioning of PVC multi inlet floor trap / p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete 1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors. 110mm dia inlet 75mm dia outlet - Floor Trap	80.00	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
614	Item 4.85	CODE NO: 19.33.1 Providing and fixing on wall /column face unplasticed - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter.	100.00	Mtrs.			
615	Item 4.86	CODE NO: 19.33.1A Providing and fixing on wall face / column face unplasticised - PVC moulded fittings/accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion - Single tee with door - 110x110x110mm	40.00	Each			
616	Item 4.87	CODE NO: 19.33.1D Providing and fixing on wall face /column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend with door 110mm	20.00	Each			
617	Item 4.88	CODE NO: 19.33.2 Providing and fixing on wall / column face unplasticised - PVC soil and waste pipes (type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	100.00	Mtrs.			
618	Item 4.89	CODE NO: 19.33.2A Providing and fixing on wall/column face unplasticisd - PVC moulded fittings /accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	40.00	Each			
619	Item 4.90	CODE NO: 19.33.2F Providing and fixing on wall face / column face unplasticised - PVC moulded fittings /accessories for unplasticised PVC soil and waste pipes conforming to IS:4985 including of jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - bend with door 75 mm.	20.00	Each			
620	Item 4.91	CODE NO: 14.41.22 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110mm diameter	46.00	Metre			
621	Item 4.92	CODE NO: 12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	22.00	Each			
622	Item 4.93	CODE NO: 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	12.00	Each			
623	Item 4.94	CODE NO: 12.43.1 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 75mm	60.00	Each			
624	Item 4.95	CODE NO: 17.10.2.3 Providing and fixing Stainless steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I.brackets and stainless steel plug 40mm, including painting of fittings and brackets, cutting and making good the walls wherever required - kitchen sink without drain board -470x420 mm bowl depth 178mm	20.00	Each			
625	Item 4.96	CODE NO: 17.28.2.2 Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete - Flexible pipe - 40mm dia	40.00	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
626	Item 4.97	CODE NO: 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	20.00	Each			
627	Item 4.98	CODE NO: 17.18.2 Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -coloured	20.00	Each			
628	Item 4.99	CODE NO: 17.20.2 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete - black solid plastic seat with lid	20.00	Each			
629	Item 4.100	CODE NO: 17.25.2 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings -angle back wash basin of size 600x480mm	20.00	Each			
630	Item 4.101	CODE NO: 18.53.1 Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	80.00	Each			
631	Item 4.102	CODE NO: NPSR-5 Providing, fixing, testing and commissioning of PVC multi inlet floor trap/ p trap of self cleansing design moulded or fabricated, if not available insize mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors.110mm dia inlet 110mm dia out let - P Trap	20.00	Each			
632	Item 4.103	CODE NO: 18.49.1 Providing and fixing CP brass bib cock of approved quality conforming to IS 8931 - 15mm nominal bore.	50.00	Each			
633	Item 4.104	CODE NO: 18.51.1 Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms - 15mm nominal bore.for kitchen	20.00	Each			
634	Item 4.105	CODE NO: 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes - 110mm diameter	46.00	Metre			
635	Item 4.106	CODE NO: 12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	22.00	Each			
636	Item 4.107	CODE NO: 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	12.00	Each			
637	Item 4.108	CODE NO: 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete 110mm	140.00	Each			
638	Item 4.109	CODE NO: 12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams	8.00	Each			
639	Item 4.110	CODE NO: 1.10.1 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.Group (A)	250.00	Point			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
640	Item 4.111	CODE NO: 1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	40.00	Nos			
641	Item 4.112	CODE NO: 1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	8.00	point			
642	Item 4.113	CODE NO: NPSR-6 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	130.00	Nos			
643	Item 4.114	CODE NO: NPSR-7 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 6/16 A modular socket outlet and 6/16 A modular switch, connections etc. as required.	60.00	Nos			
644	Item 4.115	CODE NO: 1.22.4 Supplying and fixing metal box of following sizes (nominal per size) on surface or inrecess with suitable size of phenolic laminated sheet cover in front including painting etc.as required - 150 mm x 150 mm x 60 mm deep	165.00	Nos			
645	Item 4.116	CODE NO: 1.14.2 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 2.5 sq.mm + 1 x 2.5 sq.mm earth	980.00	Mtr			
646	Item 4.117	CODE NO: 1.14.3 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2 X 4 sq.mm + 1 x 4 sq.mm earth wire	920.00	Mtr			
647	Item 4.118	CODE NO: 1.14.4 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required - 2X 6 sq.mm + 1 x 6 sq.mm earth wire	420.00	Mtr			
648	Item 4.119	CODE NO: 1.1.2.2 Supplying and laying of following size of PVC conduit in roof slab alongwith the accessories. Make:Avonplast / Vijaya:- 25mm dia	700.00	Mtr			
649	Item 4.120	CODE NO: 2.5.1 Supplying and fixing of following ways surface / recess mounting, vertical type, 415 V, TPN MCB distribution board of sherrt steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB'S (but without MCB,S (but without MCB's and inomer) as required. (note : Vertical type MCB TPDB is normally usd where 3 phase outlets are required) - 4 way (4 + 12) , double door	2.00	Nos.			
650	Item 4.121	CODE NO: 2.3.2 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 8 way, double door	20.00	Nos.			
651	Item 4.122	CODE NO: 2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 12 way, double door	2.00	Nos.			
652	Item 4.123	CODE NO: 2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. -Single Pole	120.00	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
653	Item 4.124	CODE NO: 2.10.3 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections , testing and commissioning etc .as required. - Double Pole	2.00	Nos.			
654	Item 4.125	CODE NO: NPSR-8 Supplying and fixing 40 amps to 63 amps rating, Triple pole, 415 volts, 'c' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make: Siemens/ABB/L&T Hager	5.00	Nos.			
655	Item 4.126	CODE NO: NPSR-9 Supplying and fixing 40 amps to 63 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	5.00	Nos.			
656	Item 4.127	CODE NO: NPSR-10 Supplying and fixing 100 amps rating, 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	3.00	Nos.			
657	Item 4.128	CODE NO: 2.14.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections , testing and commissioning etc.as required - 25 A	3.00	Nos.			
658	Item 4.129	CODE NO: 2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40A	20.00	Nos.			
659	Item 4.130	CODE NO: NPSR-11 Supply and fixing of surface mounting, batten type 20W LED tube light (Four feet) luminaire with efficient driver (efficiency shall be more than 90%) & required minimum of 600 lumens output, comprising of high quality diffuser technology complete with efficient & constant current output driver suitable for operation on 230V, single phase, 50Hz AC supply, efficient heat sink, effective thermal management and with colour temperature shall be >5000K. The LED with suitable control gear and power factor >0.9, and necessary fixing accessories as required. Make: Philips - Smart light BN021C LED20S PSC CW GR52 or similar Wipro or equivalent	20.00	Nos.			
660	Item 4.131	CODE NO: NPSR-12 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver & sunflower green colours) Make: Philips	2.00	Nos.			
661	Item 4.132	CODE NO: NPSR-13 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	20.00	Mtrs.			
662	Item 4.133	CODE NO: 9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 4 X25 sq.mm (28 mm)	5.00	Set			
663	Item 4.134	CODE NO: NPSR-14 Supply and laying of earthing and cable gland earthing using 10 SWG copper wire.	40.00	Mtr			
664	Item 4.135	CODE NO: NPSR-15 Supply of 11KV 3Cx185 Sq.mm HT XLPE Aluminium armoured ug cable, without any cable joint. all complete as per specifications, drawings and / or as required by the PED.	6.00	Mtrs.			
665	Item 4.136	CODE NO: NPSR-16 Supply and providing of 11KV indoor type heat shrinkable end termination suitable for 3Cx185 Sq.mm HT XLPE aluminium ug cable. All complete as per specifications, drawing and/or as required by PED.	1.00	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
666	Item 4.137	CODE NO: 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.as required - above 120 sq.mm and upto 400 sq.mm	6.00	Mtrs.			
667	Item 4.138	CODE NO: NPSR-17 Supply of 3 1/2 x 300sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	10.00	Mtrs.			
668	Item 4.139	CODE NO: NPSR-18 Supply of 3 1/2 x 240sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	136.00	Mtrs.			
669	Item 4.140	CODE NO: NPSR-19 Supply of 4 x6 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	18.00	Mtrs.			
670	Item 4.141	CODE NO: NPSR-20 Supply of 4 x4 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	42.00	Mtrs.			
671	Item 4.142	CODE NO: NPSR-21 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 4 sq. mm	4.00	Set			
672	Item 4.143	CODE NO: NPSR-22 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 6 sq. mm	2.00	Set			
673	Item 4.144	CODE NO: 9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X240 sq.mm (62 mm)	5.00	Set			
674	Item 4.145	CODE NO: 9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 31/2 X300 sq.mm (70 mm)	2.00	Set			
675	Item 4.146	CODE NO: 7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - above 185 sq.mm and upto 400 sq.mm	56.00	Mtrs.			
676	Item 4.147	CODE NO: 7.2.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning , protective covering and refilling the trench etc. as required - above 185 sq.mm and upto 400 sq.mm	96.00	Mtrs.			
677	Item 4.148	CODE NO: 7.1.1 Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - Upto 35 sq.mm	66.00	Mtrs.			
678	Item 4.149	CODE NO: NPSR-23 Supply and erection of 2.1 Mtr. height 50mm diameter GI Poles around the HT switchgear/Transformer yard and laid with 25x25mm welded mesh with 2 coats of Alminum paint on it. The pole to pole gap will be maintained as 2.25Mts max. (1/5th of the Pole will be embedded in the ground). The item including required civil works and kerb wall etc.	10.00	Sq.mts			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
679	Item 4.150	<p>CODE NO: NPSR-24</p> <p>Supply, Unloading & handling, erection , testing and commissioning of 11KV/433V, 500 KVA of outdoor type, oil filled , copper wound, natural cooled (ONAN) type energy efficient transformer with the following specifications etc. energy efficient Transformer (IS:1180) with off load tap changer.The transformer cooling shall be of with oil and natural air. The items including necessary fixing accessories with all complete as required by PED.</p> <p>a)Rated Voltage HV Windings - 11 KV LV Windings - 433 V No load voltage ratio - 11 KV/ 433 V Rated Frequency - 50 Hz</p> <p>b)Winding Connections HV Windings - DELTA LV Windings - STAR Vector Group - Dyn 11</p> <p>c)Terminal arangement Primary - 11KV Cable box Secondary - 433V Cable box. Temperature Rise by resistance - 90 Degree C Ambient Temperature - 50 Degree C Core lamination material - Cold Rolled Grain Oriented Core Type of cooling -Oil Natural Air Natural (ONAN) Type of winding insulation - DPC of class A insulation</p> <p>d)Losses No load losses and Load losses - as per energy efficiency requirements/standards. No load current (% of rated current) : Less than 1.5%</p> <p>e)Tap Changes Type - OFF circuit Range - +5% to -15% in steps of 1.25%</p> <p>Note: The handling from the truck and placing on the plinth is included in the scope. The plinth shall be constructed by civil contractor based on the load calculations given by the electrical contractor. Suitable stopper fabricated out of MS angles shall be fixed to arrest the movement of the transformer.</p>	1.00	Set			
680	Item 4.151	<p>CODE NO: NPSR-25</p> <p>Supply, installation, testing and commissioning of out door type (IP 65) LT Feeder Pillar fabricated with 14G CRCA sheet steel and powder coated, aluminium busbars, provision for incoming and outgoing cable terminations, the incoming and outgoing switchgears are as per the followings. The items including necessary control wiring, safety features, lock & key / sealing arrangements, minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete with necessary fixing accessories etc. All complete as required by PED standards & specifications.</p> <p>a)4 Way LT Feeder Pillar</p> <p>i.Incoming: 400A TPN MCCB - 1 no.</p> <p>ii. Outgoing: 200A TPN FUSE - 4 nos.</p>	1.00				

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
681	Item 4.152	<p>CODE NO: NPSR-26</p> <p>Supply, installation, testing and commissioning of 415V metering panel board fabricated with 14G CRCA sheet steel, powder coated with siemens gray (RAL7032 IS-5) after seven tank process, complete with aluminium bus bars (the clearance shall not less than 25 mm for phase-phase and 19mm for phase- neutral/earth), 3.15mm sheet steel or 40x40x6mm MS angle for load bearing members, lifting hooks, MS base frame of 75mm height incomers and outgoing switchgear as below. The item including cost of supply and fixing of 3-phase energy meters, necessary sealing arrangements, 25x3mm GI earthing throughout the bottom length, 6 sq.mm FRLS copper wire inter connections for compartment earthing, complete copper control wiring with crimping type ferrules, copper lugs, proper engraving sheet to be fixed on each outgoing etc. Also the cost inclusive of minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete as per specifications, drawing and/or as required by CEA/PED. The contractor shall submit general arrangement & control wiring drawings and get approval from site Engineer/Consultant before commence the fabrication works. Note:panels costing should be as per sld & with respect to PED standards</p> <p>Metering Panel Incomer : 200A TPN FSU : 1 no. Outgoings : 20 Sets each comprising of: a) 40A DP Fuse cut outs with neutral link. b) Single phase Energy meter as per PED requirement. c) 40A DP MCB (C - curve 10KA) 1 Sets each comprising of: a) 63A TPN Fuse cut outs with neutral link. b) Dummy chamber for Fixing three phase energy Energy meter as per PED requirement. c) 63A FP MCB (C - curve 10KA)</p>	1.00	Set			
682	Item 4.153	<p>CODE NO: NPSR-27</p> <p>COMMON PANEL</p> <p>Incomer 200A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 200/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 200A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 100A, TPN, FSU - 2 Nos 63A, TPN, FSU - 2 Nos</p>	1.00	Set			
683	Item 4.154	<p>CODE NO: NPSR-28</p> <p>EXTERNAL LIGHTING PANEL</p> <p>Incomer 63A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 63/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 63A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A /sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 32A, TPN, MCB - 2 Nos Timer switch (daily)/ digital time switches daily programme with standby battery (3years) 2 channel . Make:L&T-Hagger/Legrand-Lexic - 2 Nos</p>	1.00	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
684	Item 4.155	CODE NO: 14.40 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5m, including getting out the excavated soil, refilling with sand and good soil after laying of cable / pipe etc. in layers of 20cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters(750mm(d)x750mm(w))	20.00	cum			
685	Item 4.156	CODE NO: NPSR-29 Providing earthen cable trenches, including necessary excavation, supply and placing in position of sand, bricks / PCC protective slabs, cable markers and backfilling in compacted layers, all complete as per specifications, drawings and /or as directed by the Engineer. 450 mm wide x 600 mm deep for LT cables	6.00	Mtrs.			
686	Item 4.157	CODE NO: NPSR-30 Supply and installation of inspection chamber of 750mm x 750mm x 750mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	4.00	Nos			
687	Item 4.158	CODE NO: NPSR-31 Supply and installation of inspection chamber of 600mm x 600mm x 600mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	4.00	Nos			
688	Item 4.159	CODE NO: 19.6.2 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete -150 mm dia RCC pipe	12.00	Mtrs.			
689	Item 4.160	CODE NO: 19.6.4 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete - 300 mm dia RCC pipe.	4.00	Mtrs.			
690	Item 4.161	CODE NO: 31.160.1K Providing, laying and jointing UPVC pipes (Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa) conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 160mm dia.	18.00	Mtrs.			
691	Item 4.162	CODE NO: 31.160.1G Providing, laying and jointing UPVC pipes (Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site, lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment, including cost of solvent cement, excluding UPVC specials such as bends, tees, threaded pieces, couplers, reducer, endcaps etc., complete all as per IS and CPWD specification. - 75mm dia.	18.00	Mtrs.			
692	Item 4.163	CODE NO: 5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required	10.00	Set.			
693	Item 4.164	CODE NO: 5.40 Earthing with G.I.earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc.but without charcoal / coke and salt as required	1.00	Set.			
694	Item 4.165	CODE NO: 5.60 Earthing with copper earth plate 600 mm x 600 mm x 3 mm per thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal / coke and salt as required	1.00	Set.			
695	Item 4.166	CODE NO: NPSR-32 Supply and laying of 25 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	72.00	Mtr			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
696	Item 4.167	CODE NO: NPSR-33 Supply and laying of 40 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	12.00	Mtr			
697	Item 4.168	CODE NO: NPSR-34 Supply and providing the following safety items as per the requirements of statutory authorities: Fire Bucket with sand(4 buckets and one sand)	1.00	Set			
698	Item 4.169	CODE NO: NPSR-35 Supply and fixing of 11KV danger board as per standard with all fixing accessories etc.	1.00	Nos.			
699	Item 4.170	CODE NO: NPSR-36 Supply of 11KV Rubber gloves.	1.00	Set			
700	Item 4.171	CODE NO: NPSR-37 Supply of 1.1KV Rubber gloves.	1.00	Set			
701	Item 4.172	CODE NO: NPSR-38 Supply of Rubber mats.	1.00	Mtr			
702	Item 4.173	CODE NO: NPSR-39 Supply and fixing of shock treatment/First Aid treatment chart in Tamil, English and Hindi. All complete with necessary fixing accessories etc.	1.00	Nos.			
703	Item 4.174	CODE NO: NPSR-40 LV Danger board stickers	1.00	Nos.			
704	Item 4.175	CODE NO: NPSR-41 First aid box	1.00	Nos.			
705	Item 4.176	CODE NO: NPSR-42 Dry type fire extinguisher -4.5 Kg for electrical room	1.00	Nos.			
		Construction of mini hygienic fish Market at nethaji nagar – II and Provision of solar powered LED Street light in ambedhkar salai at Udayar thottam.					
706	Item 5.1	CODE NO: 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m - all kinds of soil.	469.29	cum			
707	Item 5.2	CODE NO: 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m.	328.83	cum			
708	Item 5.3	CODE NO: 2.26.1 Extra for every additional lift of 1.5m or part there of in excavation / banking excavated or stacked materials - all kinds of soil	62.07	cum			
709	Item 5.4	CODE NO: NPSR 1 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	73.65	cum			
710	Item 5.5	CODE NO: 2.27D.1 Supplying and filling with gravel (excluding rock) in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers, including all leads and lift etc., complete for making play fields, running trees and courtyards.	504.00	cum			
711	Item 5.6	CODE NO: 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	3.38	Cum			
712	Item 5.7	CODE NO: 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - all work upto plinth level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	140.42	cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
713	Item 5.8	CODE NO: 5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centring, shuttering, finishing and reinforcement -All work upto plinth level 1:1.5:3 (1cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	159.30	cum			
714	Item 5.9	CODE NO: 5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and sting courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and enforcement - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	34.19	cum			
715	Item 5.10	CODE NO: 5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	31.56	cum			
716	Item 5.11	CODE NO: 5.9.1 Centring and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete	209.46	cum			
717	Item 5.12	CODE NO: 5.9.3 Centering and shuttering including strutting, propping etc and removal of form for - Suspended floors, roofs, landings, balconies and access platform	75.29	cum			
718	Item 5.13	CODE NO: 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and cantilevers	181.43	cum			
719	Item 5.14	CODE NO: 5.9.6 Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts	647.87	cum			
720	Item 5.15	CODE NO:5.9.21 Centering and shuttering including strutting, propping etc and removal of form for - Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick	647.99	cum			
721	Item 5.16	CODE NO: 5.18.1 Providing precast cement concrete jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning , fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits - 50mm thick	61.20	Sqm			
722	Item 5.17	CODE NO: 5.22.6 Steel reinforcement for R.C.C.work including straightening, cutting, bending, placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars	23796.13	kg			
723	Item 5.18	CODE NO: 5.22.10 Providing and placing M30 grade cover block for RCC work all levels	186.00	nos			
724	Item 5.19	CODE NO: 6.1.2 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in - cement mortar 1:6 (1 cement : 6 coarse sand)	120.82	cum			
725	Item 5.20	CODE NO: 6.4.1 (Full Brick) Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	405.73	cum			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
726	Item 5.21	CODE NO: 9.48.2 Providing and fixing M.S.grills of required pattern in frames of windows etc with M.S.flats , square or round bars etc. including priming coat with approved steel primer all complete - Fixed to openings / wooden frames with rawl plugs screws ets..	661.50	kg			
727	Item 5.22	CODE NO: 10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	9450.00	kg			
728	Item 5.23	CODE NO: 11.36C Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make (Johnson / Asian / Somany / Nitco) in all colours, shades of size 300 x 600 mm as approved in skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 300x600 mm	382.71	Sqm			
729	Item 5.24	CODE NO: 11.40.4 Providing and laying rectified ceramic rustic/ matt finish floor tiles of size 300*300mm or more (thickness to be specified by the manufacturer)of commercial quality conforming to IS:15622 of approved make (somany / Nitco)in all colours shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	694.05	Sqm			
730	Item 5.25	CODE NO: 12.1.1 Providing corrugated G.S sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I limpet washers or with G.I limpet washers filled with white lead including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete, excluding the cost of purlins rafters and trusses and including cutting to size and shape wherever required -1.00 mm thick with zinc coating not less than 275 gm/ sq.m	681.45	Sqm			
731	Item 5.26	CODE NO: 12.75 Providing and laying water proofing for roof portion - Clean the surface using wire brush to remove fungus sticking on the tile surface . Remove the laitance and plaster residues with a chisel & hammer and repair any broken structure with civil work . Apply one coat MACRYL SL (Acrylic penetrating primer) Lay one coat of 3-4 mm thick MATPROOF ACR (Fibre reinforced Acrylic plaster) Elastomeric plaster on the flat area . Provide a seal coat with a flexible MACRYL again	52.50	Sqm			
732	Item 5.27	CODE NO: 13.7.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	68.50	Sqm			
733	Item 5.28	CODE NO: 13.8.2 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix - 1:4 (1 cement : 4 fine sand) Plastering on floor i.e. Grade Slab	3563.04	Sqm			
734	Item 5.29	CODE NO: 13.37.1 White washing with lime to give an even shade - new work (three or more coats)	19.07	Sqm			
735	Item 5.30	CODE NO: 13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacturer on wall surface - water thinnable cement primer	3563.04	Sqm			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
736	Item 5.31	CODE NO: 13.44.1 Finishing walls with water proofing cement paint of required shade - New work (Two or more coats applied @ 3.84 kg / 10 sqm)	3563.04	Sqm			
737	Item 5.32	CODE NO: 13.50.3 Applying priming coat - with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron / steel works	13.23	Sqm			
738	Item 5.33	CODE NO: 13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work	235.13	Sqm			
739	Item 5.34	CODE NO: 16.68 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sand etc. all complete.	1008.00	Sqm			
740	Item 5.35	CODE NO: 19.32.1A Making soak pit 2.5 m diameter 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per standard design with F.P.S.bricks	2	Each			
741	Item 5.36	CODE NO: 9.1.2V Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Vengai wood.	133891.11	Cum			
742	Item 5.37	CODE NO: 9.21.1 Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. - 35 mm thick including ISI marked stainless steel butt hinges with necessary screws	1851.68	Sqm			
743	Item 5.38	CODE NO: 18.9.11 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall)-20mm nominal outer dia pipes	250	Mtrs.			
744	Item 5.39	CODE NO: 18.9.12 Providing and fixing ASTM pipes including all ASTM plain& brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	500	Mtrs.			
745	Item 5.40	CODE NO: 18.9.14 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 40mm nominal outer dia pipes	650	Mtrs.			
746	Item 5.41	CODE NO: 18.17.4 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 50mm nominal bore	4	Each			
747	Item 5.42	CODE NO: 18.18.3 Providing and fixing ball valve (brass) of approved quality, high or low pressure, with plastic floats complete-25mm nominal bore	40	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
748	Item 5.43	CODE NO: 18.48A Providing and placing on terrace(at all floor levels)polyethylene water storage tank ISI:12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank. for domestic water: Circular Tank (3000 litre Tank 22nos)	12000	Litre			
749	Item 5.44	CODE NO: 18.62.3 Providing and fixing PTMT Ball cock of approved quality colour and make complete with Epoxy coated aluminium rod with L.P / H.P.H.D.plastic ball-25mm nominal bore, 152mm long, weighing not less than 440 gms.	4	Each			
750	Item 5.45	CODE NO: NPSR 2 Providing, fixing, testing and commissioning of PVC multi inlet floor trap / p trap of self cleansing design moulded or fabricated, if not available in size mentioned below, with or without vent arm jointing with solvent cement followed by application of leak proof adhesive like FRP paste including encasing all round fixing the floor trap in cement concrete1:2:4 ratio of size 300 x 300 mm x 250 mm height (approx) and making good the floors. 110mm dia inlet 75mm dia out let - Floor Trap	60	Each			
751	Item 5.46	CODE NO: 12.43.1 Providing and fixing unplasticed -PVC pipe clips of approved design to unplasticed- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete 75mm	100	Each			
752	Item 5.47	CODE NO: 12.43.2 Providing and fixing unplasticed -PVC pipe clips of approved design to unplasticed- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete 110mm	100	Each			
753	Item 5.48	CODE NO: 19.33.1 Providing and fixing on wall /column face unplasticed - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter.	250	Mtrs.			
754	Item 5.49	CODE NO: 19.33.1 A Providing and fixing on wall face / column face unplasticed - PVC moulded fittings/accessories for unplasticed - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion - Single tee with door - 110x110x110mm	30	Each			
755	Item 5.50	CODE NO: 19.33.1 E Providing and fixing on wall face/column face unplasticed - PVC moulded fittings/accessories for unplasticed - PVC soil and waste pipes conforming to IS:14735-1999 including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion-heel rest bend 110mm.	30	Each			
756	Item 5.51	CODE NO: 19.33.2 Providing and fixing on wall/column face unplasticed-PVC soil and waste pipes(type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	350.00	Mtrs.			
757	Item 5.52	CODE NO: 19.33.2A Providing and fixing on wall/column face unplasticed-PVC moulded fittings /accessories for unplasticed - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	30.00	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
758	Item 5.53	CODE NO: 19.33.2F Providing and fixing on wall face/column face unplasticised - PVC moulded fittings /accessories for unplasticised PVC soil and waste pipes conforming to IS:4985 including of jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion - bend with door 75 mm.	30.00	Each			
759	Item 5.54	CODE NO: 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	4.00	Each			
760	Item 5.55	CODE NO: 17.18.2 Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -coloured	4	Each			
761	Item 5.56	CODE NO: 17.20.2 Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete - black solid plastic seat with lid	4	Each			
762	Item 5.57	CODE NO: 17.25.2 Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings –angle back wash basin of size 600x480mm	2.00	Each			
763	Item 5.58	CODE NO: 17.73.2 Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 gm.	6	Each			
764	Item 5.59	CODE NO: 18.51.1 Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms - 15mm nominal bore.for kitchen	30	Each			
765	Item 5.60	CODE NO: 18.53.1 Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	6	Each			
766	Item 5.61	CODE NO: 18.56.1 Providing and fixing PTMT pillar cock of approved quality and colour - 15 mm nominal bore , 107 mm long, weighing not less than 110 gms	2	Each			
767	Item 5.62	CODE NO: 18.65 Providing and fixing PTMT soap dish holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements weighing not less than 106 grams.	6	Each			
768	Item 5.63	CODE NO: 12.41.2 Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes-110mm diameter	50	Mtrs			
769	Item 5.64	CODE NO: 12.42.1.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion - Coupler - 110mm	4	Each			
770	Item 5.65	CODE NO: 12.42.5.2 Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion - bend 87.5 degree - 110mm bend	4.00	Each			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
771	Item 5.66	CODE NO: 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs,screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement :4 coarse sand) and making good the wall etc., complete 110mm	30.00	Each			
772	Item 5.67	CODE NO: 12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams	4.00	Each			
773	Item 5.68	CODE NO: 1.10.1 Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit,with modular switch,modular plate,suitable GI box and earthing the point with 1.5 Sq. mm FRLS PVC insulated copper conductor single core cable etc.as required.Group (A)	300.00	Point			
774	Item 5.69	CODE NO: 1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	30.00	Nos			
775	Item 5.70	CODE NO: 1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit , 2 way modular switch, modular plate , suitable GI box and earthing the point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.	10.00	Point			
776	Item 5.71	CODE NO: NPSR -3 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	50.00	Nos			
777	Item 5.72	CODE NO: NPSR -4 Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 6/16 A modular socket outlet and 6/16 A modular switch, connections etc. as required.	50.00	Nos			
778	Item 5.73	CODE NO: 1.14.2 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2X 2.5 sq.mm + 1 x 2.5 sq.mm earth	1250.00	Mtr			
779	Item 5.74	CODE NO: 1.14.3 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2 X 4 sq.mm + 1 x 4 sq.mm earth wire	1100.00	Mtr			
780	Item 5.75	CODE NO: 1.14.4 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor , single core cable in surface / recessed medium class PVC conduit as required - 2 X 6 sq.mm + 1 x 6 sq.mm earth wire	350.00	Mtr			
781	Item 5.76	CODE NO: 1.1.2.2 Supplying and laying of following size of PVC conduit in roof slab alongwith the accessories .Make:Avonplast/Vijaya:- 25mm dia	450.00	Mtr			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
782	Item 5.77	CODE NO : 2.5.1 Supplying and fixing of following ways surface / recess mounting , vertical type, 415 V , TPN MCB distribution board of sherrt steel , dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common netural link, earth bar, din bar for mounting MCB'S (but without MCB,S (but without MCB's and incomer) as required. (note : Vertical type MCB TPDB is normally usd where 3 phase utlets are required) - 4 way (4 + 12), double door.	8.00	Nos			
783	Item 5.78	CODE NO : 2.3.2 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 8 way, double door	28.00	Nos			
784	Item 5.79	CODE NO : 2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB disribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (But without MCB / RCCB / Isolator)- 12 way, double door	30.00	Nos			
785	Item 5.80	CODE NO : 2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc .as required. -Single Pole	76.00	Nos			
786	Item 5.81	CODE NO : 2.10.3 Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc .as required. -Double Pole	2.00	Nos			
787	Item 5.82	CODE NO: NPSR -5 Supplying and fixing 40 amps to 63 amps rating, Triple pole, 415 volts, 'c' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Make:Siemens/ABB/L&T Hager	8.00	Nos			
788	Item 5.83	CODE NO: NPSR -6 Supplying and fixing 40 amps to 63 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	8.00	Nos			
789	Item 5.84	CODE NO: NPSR -7 Supplying and fixing 100 amps rating , 415 volts, 10kA 'c' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. - Four Pole	2.00	Nos			
790	Item 5.85	CODE NO: 2.14.1 Supplying and fixing following rating , four pole ,(three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections , testing and commissioning etc.as required - 25 A	2.00	Nos			
791	Item 5.86	CODE NO: 2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.40A	30.00	Nos			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
792	Item 5.87	CODE NO: NPSR -8 Supply and fixing of surface mounting, batten type 20W LED tube light (Four feet) luminaire with efficient driver (efficiency shall be more than 90%) & required minimum of 1600 lumens output, comprising of high quality diffuser technology complete with efficient & constant current output driver suitable for operation on 230V, single phase, 50Hz AC supply, efficient heat sink, effective thermal management and with colour temperature shall be >5000K. The LED with suitable control gear and power factor >0.9. and necessary fixing accessories as required. Make: Philips - Smart light BN021C LED20S PSC CW GR52 or similar Wipro or equivalent.	20.00	Nos			
793	Item 5.88	CODE NO: NPSR -9 Supply and installation of 1 x 18w Wall Mounted decorative fittings (Available in Textured grey, textured brown, antique silver& sunflower green colours) Make: Philips	2.00	Nos			
794	Item 5.89	CODE NO: NPSR -10 Supply of 4 x 25sqmm armoured aluminium XLPE U.G cable- 1.1 KVgrade.	60.00	Mtrs			
795	Item 5.90	CODE NO: 9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required - 4 X25 sq.mm (28 mm)	8	Set			
796	Item 5.91	CODE NO: 5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required	17	Set			
797	Item 5.92	CODE NO: NPSR -11 Supply and laying of earthing and cable gland earthing using 10 SWG copper wire.	136	Mtrs			
798	Item 5.93	CODE NO: NPSR -12 Supply of 11KV 3Cx185 Sq.mm HT XLPE Aluminium armoured ug cable, without any cable joint. all complete as per specifications, drawings and / or as required by the PED.	18	Mtrs.			
799	Item 5.94	CODE NO: NPSR - 13 Supply and providing of 11KV indoor type heat shrinkable end termination suitable for 3Cx185 Sq.mm HT XLPE aluminium ug cable. All complete as per specifications, drawing and/or as required by PED.	1	Nos.			
800	Item 5.95	CODE NO: 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc.as required - above 120 sq.mm and upto 400 sq.mm	18	Mtrs.			
801	Item 5.96	CODE NO: NPSR - 14 Supply of 3 1/2 x 300sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	33	Mtrs.			
802	Item 5.97	CODE NO: NPSR - 15 Supply of 3 1/2 x 240sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	50	Mtrs.			
803	Item 5.98	CODE NO: NPSR - 16 Supply of 4 x6 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	30	Mtrs.			
804	Item 5.99	CODE NO: NPSR - 17 Supply of 4 x4 sqmm armoured aluminium XLPE U.G cable- 1.1 KV grade.	35	Mtrs.			
805	Item 5.100	CODE NO: NPSR - 18 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 4 sq. mm	18	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
806	Item 5.101	CODE NO: NPSR - 19 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 6 sq. mm	1	Set			
807	Item 5.102	CODE NO: 9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required - 31/2 X240 sq.mm (62 mm)	9	Set			
808	Item 5.103	CODE NO: 9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required - 31/2 X300 sq.mm (70 mm)	3	Set			
809	Item 5.104	CODE NO: 7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - above 185 sq.mm and upto 400 sq.mm	60	Mtrs.			
810	Item 5.105	CODE NO: 7.2.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning , protective covering and refilling the trench etc. as required - above 185 sq.mm and upto 400 sq.mm	80	Mtrs.			
811	Item 5.106	CODE NO: 7.1.1 Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade of following size direct in ground including excavation , sand cushioning, protective covering and refilling the trench etc.as required - Upto 35 sq.mm	75	Mtrs.			
812	Item 5.107	CODE NO: NPSR - 20 Supply, testing and commissioning of 630A, 11KV, 25KA, Motorised and SCADA ready load break switch attachment to the existing Ring main switchgear unit at existing 11KV PED RMS Yard, Type SF6 insulated and motorized construction all complete as required by PED. The item including all transformer protections and necessary safety accessories, The plinth shall be constructed by civil contractor based on the load calculations given by the electrical contractor etc. All complete as per specifications, drawing and/or as required by PED.	1.00	Set			
813	Item 5.108	CODE NO: NPSR - 21 Supply and erection of 2.1 Mtr. height 50mm diameter GI Poles around the HT switchgear/Transformer yard and laid with 25x25mm welded mesh with 2 coats of Alminum paint on it. The pole to pole gap will be maintained as 2.25Mts max. (1/5th of the Pole will be embedded in the ground). The item including required civil works and kerb wall etc.	35.00	Sq.mts			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
814	Item 5.109	<p>CODE NO: NPSR – 22</p> <p>Supply, installation, testing and commissioning of out door type (IP 65) LT Feeder Pillar fabricated with 14G CRCA sheet steel and powder coated, aluminium busbars, provision for incoming and outgoing cable terminations, the incoming and outgoing switchgears are as per the followings. The items including necessary control wiring, safety features, lock & key / sealing arrangements, minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete with necessary fixing accessories etc. All complete as required by PED standards & specifications.</p> <p>4 Way LT Feeder Pillar</p> <p>Incoming: 400A TPN MCCB - 1 no.</p> <p>Outgoing: 200A TPN FUSE - 4 nos.</p>	1.00	Set			
815	Item 5.110	<p>CODE NO: NPSR – 23</p> <p>Supply, installation, testing and commissioning of 415V metering panel board fabricated with 14G CRCA sheet steel, powder coated with siemens gray (RAL7032 IS-5) after seven tank process, complete with aluminium bus bars (the clearance shall not less than 25 mm for phase-phase and 19mm for phase- neutral/earth), 3.15mm sheet steel or 40x40x6mm MS angle for load bearing members, lifting hooks, MS base frame of 75mm height incomers and outgoing switchgear as below. The item including cost of supply and fixing of 3-phase energy meters, necessary sealing arrangements, 25x3mm GI earthing throughout the bottom length, 6 sq.mm FRLS copper wire inter connections for compartment earthing, complete copper control wiring with crimping type ferrules, copper lugs, proper engraving sheet to be fixed on each outgoing etc. Also the cost inclusive of minor civil works and providing necessary, support structure/frames with painting as required for erection. All complete as per specifications, drawing and/or as required by CEA/PED. The contractor shall submit general arrangement & control wiring drawings and get approval from site Engineer/Consultant before commence the fabrication works. Note: panels costing should be as per sld & with respect to PED standards.</p> <p>Metering Panel</p> <p>Incomer : 200A TPN FSU : 1 no.</p> <p>Outgoings : 20 Sets each comprising of:</p> <p>a) 40A DP Fuse cut outs with neutral link.</p> <p>b) Single phase Energy meter as per PED requirement.</p> <p>c) 40A DP MCB (C - curve 10KA)</p> <p>1 Sets each comprising of:</p> <p>a) 63A TPN Fuse cut outs with neutral link.</p> <p>b) Dummy chamber for Fixing three phase energy Energy meter as per PED requirement.</p> <p>c) 63A FP MCB (C - curve 10KA)</p>	1	Set			
816	Item 5.111	<p>CODE NO: NPSR – 24</p> <p>COMMON PANEL Incomer 200A, TPN, FSU - 1 Nos</p> <p>Phase indication lamps(R,Y,B) - 1 set.</p> <p>CT ratio 200/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set.</p> <p>Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set.</p> <p>Busbar: 200A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 100A, TPN, FSU - 2 Nos 63A, TPN, FSU - 2 Nos</p>	1	Set			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
817	Item 5.112	CODE NO: NPSR – 25 EXTERNAL LIGHTING PANEL Incomer 63A, TPN, FSU - 1 Nos Phase indication lamps(R,Y,B) - 1 set. CT ratio 63/5A,CL:1.0 tape insulated bar primary type with suitable sorting links - 1 Set. Metering:Multifunction meters cl:1.0 measured with following parameters: V,A,F,PF,KW,KWH & Phase sequence. - 1 Set. Busbar: 63A, TPN, 36KA, for 1 sec Aluminium bus bar Phase: current density not more than 0.8A/sq.mm Neutral: half of the phase current (0.5 x phase) Earth: 25x3mm copper flat through the panel length Outgoing: 32A, TPN, MCB - 2 Nos Timer switch (daily)/ digital time switches daily programme with standby battery (3years) 2 channel . Make:L&T-Hagger/Legrand-Lexic - 2 Nos	1	Set			
818	Item 5.113	CODE NO: 14.4 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5m, including getting out the excavated soil, refilling with sand and good soil after laying of cable / pipe etc. in layers of 20cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters(750mm(d)x750mm(w)	70	cum			
819	Item 5.114	CODE NO: NPSR-26 Providing earthen cable trenches, including necessary excavation, supply and placing in position of sand, bricks / PCC protective slabs, cable markers and backfilling in compacted layers, all complete as per specifications, drawings and /or as directed by the Engineer.450 mm wide x 600 mm deep for LT cables	15	Mtrs.			
820	Item 5.115	CODE NO: NPSR-27 Supply and installation of inspection chamber of 750mm x 750mm x 750mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	5	Nos			
821	Item 5.116	CODE NO: NPSR-28 Supply and installation of inspection chamber of 600mm x 600mm x 600mm depth (clear internal dimensions) with 230mm thick Brick cable chamber with 50mm thick RCC removable slab cover as required.	6	Nos			
822	Item 5.117	CODE NO: NPSR-29 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointedwith stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete -150 mm dia RCC pipe	30	Mtrs.			
823	Item 5.118	CODE NO: 19.6.4 Providing and laying non pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc, complete - 300 mm dia RCC pipe.	7	Mtrs.			
824	Item 5.119	CODE NO: 31.160.1K Providing, laying and jointing UPVC pipes(Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such as bends,tees, threaded pieces,couplers, reducer,endcaps etc.,complete all as per IS and CPWD specification. - 160mm dia.	60	Mtrs.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
825	Item 5.120	CODE NO: 31.160.1G Providing, laying and jointing UPVC pipes(Finolex / jain / Supreme / Truebore / Nandi) (1 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site , lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such as bends,tees, threaded pieces,couplers,reducer,endcaps etc.,complete all as per IS and CPWD specification. - 75mm dia.	60	Mtrs.			
826	Item 5.121	CODE NO: 5.4 Earthing with G.I.earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc.but without charcoal / coke and salt as required	2	Set.			
827	Item 5.122	CODE NO: 5.6 Earthing with copper earth plate 600 mm x 600 mm x 3 mm per thick including accessories , and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal / coke and salt as required	1	Set.			
828	Item 5.123	CODE NO: NPSR-30 Supply and laying of 25 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	260	Mtr			
829	Item 5.124	CODE NO: NPSR-31 Supply and laying of 40 X 6 mm GI flat as body earthing and neutral earthing laying with necessary insulators and fixing accessories etc. all complete as per specifications, drawings and / or as directed by PED.	26	Mtr			
830	Item 5.125	CODE NO: NPSR-32 Fire Bucket with sand(4 buckets and one sand)	1	Set			
831	Item 5.126	CODE NO: NPSR-33 Supply and fixing of 11KV danger board as per standard with all fixing accessories etc.	2	Nos.			
832	Item 5.127	CODE NO: NPSR-34 Supply of 11KV Rubber gloves.	1	Set			
833	Item 5.128	CODE NO: NPSR-35 Supply of 1.1KV Rubber gloves.	1	Set			
834	Item 5.129	CODE NO: NPSR-36 Supply of Rubber mats.	4	Mtr			
835	Item 5.130	CODE NO: NPSR-37 Supply and fixing of shock treatment/First Aid treatment chart in Tamil, English and Hindi. All complete with necessary fixing accessories etc.	2	Nos.			
836	Item 5.131	CODE NO: NPSR-38 LV Danger board stickers	2	Nos.			
837	Item 5.132	CODE NO: NPSR-39 First aid box	4	Nos.			
838	Item 5.133	CODE NO: NPSR-40 Dry type fire extinguisher -4.5 Kg for electrical room	4	Nos.			

Sl. No	Item No	Description of Work	Qty	Unit	Rate		Amount
					In fig	In word	
839	Item 5.136	<p>CODE NO: NPSR-42</p> <p>Supplying and providing of integrated solar steel lighting system including battery, charge controller, luminary, mechanical mountings, pole, cables etc., (inclusive of warranty & CMC charges), with specification which are listed below</p> <p>i. Battery 12.8V min x40 Ah lithium ferro phosphate battery with 95% discharge with the suitable luminary for outdoor use.</p> <p>ii. Luminary 20W white LED with charge controller having MPPT housing with Li-Fe-Po4 battery.</p> <p>iii. PV Module • 75Wp minimum solar photovoltaic mono – crystalline Module • The PV module itself should be used to sense the ambient light level for switching ON and OFF the lamp. • No load current consumption should be less than 20 mA</p> <p>iv. Charge Controller 12V/10A MPPT</p> <p>v. Luminary Material Aluminium die-casted casing suitable for outdoor use and shall comply with IP65</p> <p>vi. Charge time 4-5 Hours (by sun)</p> <p>vii. Discharge time 02 days or 24 hours</p> <p>viii. Duty cycle First 5 hours working with full brightness and next 3 hours with 60% brightness and the rest of time with 30% brightness. (this could be vary subject to requirement)</p> <p>ix. Mechanical components of the pole Pole height 5m above the ground level and 1m below the ground. Luminaire shall be at least 4.5m above ground level.</p> <p>x. Warranty period • The street lighting system (including the battery & luminary) should be warranted for a period of 5 years from the Date of supply and should maintain the system with comprehensive maintenance charges for five years. • The PV module (s) should be warranted for minimum period of 25 years from the date of supply. • Warranty card to be supplied with the system must contains the details of the system.</p>	32	Nos.			

This NIT contains 839 items and approved for an amount of Rs. 18,17,56,825/- (inclusive of GST)
(Rupees Eighteen crore seventeen lakhs fifty six thousand eight hundred and twenty five only)

CHIEF EXECUTIVE OFFICER
PSCDL