

TS Register No: 650/2019-2020

AS Register No:605/2019-2020

**UP GRADATION OF GOVT ITI KOYILANDY ON PAR WITH INTERNATIONAL  
STANDARDS PHASE 1, REV-2**

Abstract Estimate

(Dsr year: **2016**, Cost Index Applied for this estimate is **31.06%**)

<b>1 MAIN BUILDING CIVIL WORKS</b>		
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil	
		Net Total Quantity 350.586 cum
		Say 350.586 cum @ Rs 165.07 / cum <b>Rs 57871.23</b>
2	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	
		Net Total Quantity 19.762 cum
		Say 19.762 cum @ Rs 5869.06 / cum <b>Rs 115984.36</b>
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for: Foundations, footings, bases for columns	
		Net Total Quantity 82.022 sqm
		Say 82.022 sqm @ Rs 254.19 / sqm <b>Rs 20849.17</b>
4	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	
		Net Total Quantity 270.891 cum
		Say 270.891 cum @ Rs 164.81 / cum <b>Rs 44645.55</b>
5	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 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 as per direction of Engineer - in-charge. 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 upto plinth level	
		Net Total Quantity 98.578 cum

Say 98.578 cum @ Rs 8448.78 / cum		<b>Rs 832863.83</b>
6	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 as per direction of Engineer - in-charge. 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	
Net Total Quantity		389.843 cum
Say 389.843 cum @ Rs 9501.92 / cum		<b>Rs 3704257.00</b>
7	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	
Net Total Quantity		81.640 sqm
Say 81.640 sqm @ Rs 254.19 / sqm		<b>Rs 20752.07</b>
8	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts	
Net Total Quantity		624.840 sqm
Say 624.840 sqm @ Rs 613.16 / sqm		<b>Rs 383126.89</b>
9	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers	
Net Total Quantity		1354.200 sqm
Say 1354.200 sqm @ Rs 449.40 / sqm		<b>Rs 608577.48</b>
10	5.9.7 Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings ) except spiral - staircases)	
Net Total Quantity		194.527 sqm
Say 194.527 sqm @ Rs 549.60 / sqm		<b>Rs 106912.04</b>
11	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	
Net Total Quantity		990.537 sqm
Say 990.537 sqm @ Rs 553.47 / sqm		<b>Rs 548232.51</b>

12	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	
Net Total Quantity		239.161 sqm
Say 239.161 sqm @ Rs 496.19 / sqm		<b>Rs 118669.30</b>
13	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).	
Net Total Quantity		194.250 cum
Say 194.250 cum @ Rs 91.09 / cum		<b>Rs 17694.23</b>
14	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 of grade Fe-500D or more	
Net Total Quantity		12566.920 kilogram
Say 12566.920 kilogram @ Rs 74.18 / kilogram		<b>Rs 932214.13</b>
15	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 of grade Fe-500D or more	
Net Total Quantity		48771.800 kg
Say 48771.800 kg @ Rs 74.18 / kg		<b>Rs 3617892.12</b>
16	6.47 Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor level with RCC band at sill level and lintel level with approved block laying polymermodified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	
Net Total Quantity		316.439 cum
Say 316.439 cum @ Rs 7453.45 / cum		<b>Rs 2358562.26</b>
17	13.4.2 12 mm cement plaster of mix:1:6 ( 1 cement : 6 coarse sand)	
Net Total Quantity		3018.326 sqm
Say 3018.326 sqm @ Rs 220.51 / sqm		<b>Rs 665571.07</b>
18	13.4.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)	
Net Total Quantity		1518.495 sqm
Say 1518.495 sqm @ Rs 237.02 / sqm		<b>Rs 359913.68</b>

19	13.16.1 6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)		
		Net Total Quantity	938.240 sqm
		Say 938.240 sqm @ Rs 188.46 / sqm	<b>Rs 176820.71</b>
20	22.5 Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg /sqm mixed with water proofing cement compound @ 0.126 kg/ sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.		
		Net Total Quantity	121.440 sqm
		Say 121.440 sqm @ Rs 390.95 / sqm	<b>Rs 47476.97</b>
21	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.		
		Net Total Quantity	946.239 sqm
		Say 946.239 sqm @ Rs 1467.09 / sqm	<b>Rs 1388217.77</b>
22	11.36 Providing and fixing 1 st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm 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 mixed with pigment of matching shade complete.		
		Net Total Quantity	168.435 sqm
		Say 168.435 sqm @ Rs 976.13 / sqm	<b>Rs 164414.46</b>
23	11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 ( 1 cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.		
		Net Total Quantity	106.470 sqm
		Say 106.470 sqm @ Rs 980.20 / sqm	<b>Rs 104361.89</b>

24	od15636/2019_2020 Supply and install externally 1st quality 30x15x0.8cm brick pattern ceramic tile for walls cladding, tile shall be laid and fixed to pre plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.	
Net Total Quantity		10.200 sqm
Say 10.200 sqm @ Rs 1393.72 / sqm		<b>Rs 14215.94</b>
25	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	
Net Total Quantity		3956.566 sqm
Say 3956.566 sqm @ Rs 48.43 / sqm		<b>Rs 191616.49</b>
26	13.82.2 Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats	
Net Total Quantity		3956.566 sqm
Say 3956.566 sqm @ Rs 96.85 / sqm		<b>Rs 383193.42</b>
27	13.46.1 Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	
Net Total Quantity		1518.495 sqm
Say 1518.495 sqm @ Rs 125.88 / sqm		<b>Rs 191148.15</b>
28	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	
Net Total Quantity		65.400 sqm
Say 65.400 sqm @ Rs 38.14 / sqm		<b>Rs 2494.36</b>
29	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats	
Net Total Quantity		65.400 sqm
Say 65.400 sqm @ Rs 98.36 / sqm		<b>Rs 6432.74</b>
30	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 etc	

		Net Total Quantity	305.600 kg
		Say 305.600 kg @ Rs 147.38 / kg	<b>Rs 45039.33</b>
31	9.147.5	<p>Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm thick galvanized mild steel section made from roll forming process of required length (shape &amp; size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame &amp; sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing &amp; direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately)</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth &amp; width of profile shall be acceptable. Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series) frame 67 x 60 mm &amp; sash / mullion 67 x 80 mm both having wall thickness of <math>2.3 \pm 0.2</math> mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).</p>	
		Net Total Quantity	60.000 sqm
		Say 60.000 sqm @ Rs 10973.92 / sqm	<b>Rs 658435.20</b>
32	9.147B.1	<p>543SUB HEAD : 9 - WOOD &amp; PVC WORK 9.147B Providing and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with <math>1.60 \pm 0.2</math> mm thick galvanized mild steel section made from roll forming process of required length (shape &amp; size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing &amp; direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately).</p> <p>Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth &amp; width of profile shall be acceptable. Fixed window / ventilator made of (small series) frame 47 x 50 mm &amp; mullion 47 x 68 mm both having wall thickness of <math>1.9 \pm 0.2</math> mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)</p>	
		Net Total Quantity	5.400 sqm
		Say 5.400 sqm @ Rs 7076.85 / sqm	<b>Rs 38214.99</b>

33	21.3.2 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness	
Net Total Quantity		65.400 sqm
Say 65.400 sqm @ Rs 1315.78 / sqm		<b>Rs 86052.01</b>
34	od15643/2019_2020 Supplying fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC  Wrapped WPC Jamb with front side Architrave other side Tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)	
Net Total Quantity		25.201 sqm of door area
Say 25.201 sqm of door area @ Rs 8460.37 / sqm of door area		<b>Rs 213209.78</b>
35	od15644/2019_2020 Supplying fully finished Pre Hung Door:-Both side Veneered (Sapeli/ Beech /RC Walnut/RC Teak etc) vertical grains Flush door with matching Veneer Wrapped Engineered wood Jamb (Frame) with front side Architraves and other side Tackers, all with specialised Lacquer Polish. Door of 35 mm thick with 4 side PVC Lipping / Lock Hole Boring (using mortise lock) / Hinge Rebate cutting (4 Nos.) /Extruded Sauerland core / Honey comb core filling. as per drawing and agreed schedule of rates inclusive of all applicable taxes to the satisfaction of site Engineer in charge.The above rate included all fixing and fitting lock, hinges,hardware items etc. ( Jacsons or approved equivalent)	
Net Total Quantity		46.200 sqm
Say 46.200 sqm @ Rs 8471.98 / sqm		<b>Rs 391405.48</b>
36	od15645/2019_2020 Supply and fixing steel doors with jamb of as per drawing and agreed schedule of rates inclusive of all applicable taxes to the satisfaction of site Engineer in charge.The above rate included all fixing and fitting lock,hinges,hardware items etc.(Ileaf, jsw, tata or approved equivalent.)	
Net Total Quantity		5.760 sqm of door area
Say 5.760 sqm of door area @ Rs 14791.70 / sqm of door area		<b>Rs 85200.19</b>
37	10.28 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	
Net Total Quantity		650.000 kg

Say 650.000 kg @ Rs 619.13 / kg		<b>Rs 402434.50</b>
38	<p>12.45.3</p> <p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &amp; bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5x25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:12.5 mm thick tapered edge gypsum moisture resistant board</p>	
Net Total Quantity		149.600 sqm
Say 149.600 sqm @ Rs 1256.41 / sqm		<b>Rs 187958.94</b>

Other Engineering Organisations  
**PRICE**



39	12.59.1 Providing and fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flanged of cleat fixed to the angle hangers of 25x10x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45x15x0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27 mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitable fixed, all complete as per drawings, specification and direction of the Engineer in charge but excluding the cost of painting with a 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.	
Net Total Quantity		121.260 sqm
Other Engineering Solutions Say 121.260 sqm @ Rs 1201.49/ sqm		<b>Rs 145692.68</b>
40	od15696/2019_2020 Supply Corten A grade 3mm thick warm rolled slotted cassettes fixed to plastered wall spacing in the hidden plastic suspension mounts with stainless steel class A2, 35 mm long and 8 mm dia pins and anchor bolts etc.	
Net Total Quantity		27.900 sqm
Say 27.900 sqm @ Rs 3268.91 / sqm		<b>Rs 91202.59</b>
41	17.2.1 Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	
Net Total Quantity		20.000 each
Say 20.000 each @ Rs 4480.55 / each		<b>Rs 89611.00</b>

42	17.4.1 Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:One urinal basin with 5 litre white P.V.C. automatic flushing cistern	
Net Total Quantity		9.000 each
Say 9.000 each @ Rs 4579.43 / each		<b>Rs 41214.87</b>
43	17.7.1 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	
Net Total Quantity		23.000 each
Say 23.000 each @ Rs 3012.48 / each		<b>Rs 69287.04</b>
44	17.8 Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	
Net Total Quantity		23.000 each
Say 23.000 each @ Rs 1278.16 / each		<b>Rs 29397.68</b>
45	18.50.1 Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.15 mm nominal bore	
Net Total Quantity		20.000 each
Say 20.000 each @ Rs 727.78 / each		<b>Rs 14555.60</b>
46	50.17.1.5 Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	
Net Total Quantity		20.000 no
Say 20.000 no @ Rs 1280.27 / no		<b>Rs 25605.40</b>
47	17.71 Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms	
Net Total Quantity		15.000 each
Say 15.000 each @ Rs 180.67 / each		<b>Rs 2710.05</b>
48	50.17.1.3 Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	

		Net Total Quantity	20.000 no
		Say 20.000 no @ Rs 127.25 / no	<b>Rs 2545.00</b>
49	od15624/2019_2020 Supply & Fixing square Cockroach proof Traps with CP Gratings. Unloading materials supplied at site and storing it in safe place provided in the site. (Make: ACO/SGS )		
		Net Total Quantity	31.000 each
		Say 31.000 each @ Rs 653.79 / each	<b>Rs 20267.49</b>
50	18.52.1 Providing and fixing C.P brass stop cock ( concealed) of standard design and of approved make conforming to IS: 893115 mm nominal bore		
		Net Total Quantity	2.000 each
		Say 2.000 each @ Rs 715.52 / each	<b>Rs 1431.04</b>
51	18.53.1 Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 893115 mm nominal bore		
		Net Total Quantity	43.000 each
		Say 43.000 each @ Rs 623.45 / each	<b>Rs 26808.35</b>
52	18.17.2 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :32 mm nominal bore		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 656.28 / each	<b>Rs 656.28</b>
53	18.17.1 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :25 mm nominal bore		
		Net Total Quantity	4.000 each
		Say 4.000 each @ Rs 561.20 / each	<b>Rs 2244.80</b>
54	18.17.3 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :40 mm nominal bore		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 766.31 / each	<b>Rs 766.31</b>
55	18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :65 mm nominal bore		
		Net Total Quantity	2.000 each
		Say 2.000 each @ Rs 1686.48 / each	<b>Rs 3372.96</b>

56	50.18.7.2.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer -in-Charge 20 mm dia 10 Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	
Net Total Quantity		55.000 metre
Say 55.000 metre @ Rs 169.07 / metre		<b>Rs 9298.85</b>
57	50.18.7.3.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 25 mm dia 10Kgf/ cm <sup>2</sup> - Internal work- Exposed on wall	
Net Total Quantity		40.000 metre
Say 40.000 metre @ Rs 193.12 / metre		<b>Rs 7724.80</b>
58	50.18.7.4.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm <sup>2</sup> - Internal work - Exposed on wall	
Net Total Quantity		45.000 metre
Say 45.000 metre @ Rs 234.11 / metre		<b>Rs 10534.95</b>
59	50.18.7.5.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10 Kgf/cm <sup>2</sup> - Internal work- exposed on wall	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 300.80 / metre		<b>Rs 9024.00</b>
60	50.18.7.6.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10 Kgf/cm - Internal work- Exposed on wall	
Net Total Quantity		25.000 metre
Say 25.000 metre @ Rs 308.80 / metre		<b>Rs 7720.00</b>
61	od15629/2019_2020 Providing and fixing PVC pipes including fixing the pipe with clamps/ clip at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 63 mm dia 10 Kgf/cm <sup>2</sup> - External work - Exposed on wall	
Net Total Quantity		45.000 metre
Say 45.000 metre @ Rs 289.38 / metre		<b>Rs 13022.10</b>

62	50.18.8.2.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20 mm pipe 10 Kg/ cm2	
Net Total Quantity		90.000 metre
Say 90.000 metre @ Rs 274.73 / metre		<b>Rs 24725.70</b>
63	50.18.9.3.2 Providing and fixing PVC pipes includes jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 25 mm dia 10KGF/cm2	
Net Total Quantity		10.000 metre
Say 10.000 metre @ Rs 160.95 / metre		<b>Rs 1609.50</b>
64	50.18.9.4.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.32 mm dia 10.Kgf/cm2	
Net Total Quantity		40.000 metre
Say 40.000 metre @ Rs 183.65 / metre		<b>Rs 7346.00</b>
65	50.18.9.5.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineer in Charge 40 mm dia 10Kgf/cm2	
Net Total Quantity		20.000 metre
Say 20.000 metre @ Rs 216.52 / metre		<b>Rs 4330.40</b>
66	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm dia 10Kgf/cm2	
Net Total Quantity		20.000 metre
Say 20.000 metre @ Rs 224.52 / metre		<b>Rs 4490.40</b>
67	od15587/2019_2020 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 10Kgf/cm2	
Net Total Quantity		140.000 metre
Say 140.000 metre @ Rs 295.88 / metre		<b>Rs 41423.20</b>
68	18.17.4 Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :50 mm nominal bore	
Net Total Quantity		4.000 each
Say 4.000 each @ Rs 982.82 / each		<b>Rs 3931.28</b>

69	18.19.4.2 Providing and fixing gun metal non-return valve of approved quality (screwed end):50 mm nominal boreVertical	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 1416.23 / each		<b>Rs 4248.69</b>
70	18.19.5.1 Providing and fixing gun metal non-return valve of approved quality (screwed end):65 mm nominal boreHorizontal	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 2317.80 / each		<b>Rs 6953.40</b>
71	50.18.8.6.2 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 50 mm pipe 6 kgf/cm <sup>2</sup>	
Net Total Quantity		45.000 metre
Say 45.000 metre @ Rs 320.03 / metre		<b>Rs 14401.35</b>
72	50.18.9.17.1 Providing and fixing PVC pipes including fixing the pipe with clamps/ clip at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 63 mm dia 6 Kgf/cm <sup>2</sup> - External work - Exposed on wall	
Net Total Quantity		35.000 metre
Say 35.000 metre @ Rs 227.19 / metre		<b>Rs 7951.65</b>
73	50.18.8.8.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 75 mm pipe 6 Kgf/cm <sup>2</sup>	
Net Total Quantity		20.000 metre
Say 20.000 metre @ Rs 474.32 / metre		<b>Rs 9486.40</b>
74	50.18.8.9.1 Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chased and making good the wall etc. 110 mm pipe 6kgf/cm <sup>2</sup>	
Net Total Quantity		80.000 metre
Say 80.000 metre @ Rs 574.32 / metre		<b>Rs 45945.60</b>

75	18.48 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.	
Net Total Quantity		5000.000 Litre
Say 5000.000 Litre @ Rs 9.50 / Litre		<b>Rs 47500.00</b>
76	19.4.3.2 Providing and fixing square-mouth S.W. gully trap class SP -1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:180x150 mm size P type With sewer bricks conforming to IS: 4885	
Net Total Quantity		7.000 each
Say 7.000 each @ Rs 2259.02 / each		<b>Rs 15813.14</b>
<b>2 MAIN BUILDING ELECTRICAL WORKS</b>		
1	od15602/2019_2020 Supply of 16 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		90.000 metre
Say 90.000 metre @ Rs 180.00 / metre		<b>Rs 16200.00</b>
2	od15605/2019_2020 Supply of 35 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		90.000 metre
Say 90.000 metre @ Rs 279.00 / metre		<b>Rs 25110.00</b>
3	od15606/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		45.000 metre
Say 45.000 metre @ Rs 238.00 / metre		<b>Rs 10710.00</b>
4	od15568/2019_2020 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		210.000 metre
Say 210.000 metre @ Rs 139.00 / metre		<b>Rs 29190.00</b>

5	od68393/2019_2020 SITC of SSB 1 (Koyilandy) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, ( bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 125A TPN Isolator – 1 No. Outgoing: - 32A 4P MCB – 6 No., 40A 4P MCB – 2 No  50A 4P MCB – 1 No	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 86934.17 / no		<b>Rs 86934.17</b>
6	9.1.21 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.3 1/2 X 35 sq. mm (32mm)	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 369.59 / set		<b>Rs 739.18</b>
7	9.1.32 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 10 sq. mm (25mm)	
Net Total Quantity		16.000 set
Say 16.000 set @ Rs 266.05 / set		<b>Rs 4256.80</b>
8	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 X 25 sq. mm (28mm)	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 338.13 / set		<b>Rs 676.26</b>
9	9.1.33 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 16 sq. mm (28mm)	
Net Total Quantity		6.000 set
Say 6.000 set @ Rs 334.20 / set		<b>Rs 2005.20</b>



10	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Upto 35 sq. mm	
Net Total Quantity		80.000 metre
Say 80.000 metre @ Rs 269.98 / metre		<b>Rs 21598.40</b>
11	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	
Net Total Quantity		90.000 metre
Say 90.000 metre @ Rs 32.77 / metre		<b>Rs 2949.30</b>
12	7.8.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	
Net Total Quantity		265.000 metre
Say 265.000 metre @ Rs 27.52 / metre		<b>Rs 7292.80</b>
13	90.11.1.11 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required6 way (8+18) - three phase double cover (IP 42/43)	
Net Total Quantity		8.000 each
Say 8.000 each @ Rs 4415.17 / each		<b>Rs 35321.36</b>
14	90.11.1.14 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required4 way (8+12) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 6466.17 / each		<b>Rs 6466.17</b>
15	2.13.1 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	
Net Total Quantity		8.000 each
Say 8.000 each @ Rs 874.17 / each		<b>Rs 6993.36</b>

16	2.15.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.25 amps	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 2747.02 / each		<b>Rs 5494.04</b>
17	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 2792.89 / each		<b>Rs 16757.34</b>
18	2.15.3 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 3017.00 / each		<b>Rs 3017.00</b>
19	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated 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. FRLSPVC insulated copper conductor single core cable etc as required.Group C	
Net Total Quantity		145.000 point
Say 145.000 point @ Rs 992.12 / point		<b>Rs 143857.40</b>
20	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 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	
Net Total Quantity		10.000 point
Say 10.000 point @ Rs 1060.28 / point		<b>Rs 10602.80</b>
21	1.14.1 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 required2x1.5 sq.mm + 1x1.5 sq.mm earth wire	
Net Total Quantity		540.000 metre
Say 540.000 metre @ Rs 146.79 / metre		<b>Rs 79266.60</b>

22	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 wire	
Net Total Quantity		540.000 metre
Say 540.000 metre @ Rs 179.55 / metre		<b>Rs 96957.00</b>
23	1.55.3 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	
Net Total Quantity		8.000 point
Say 8.000 point @ Rs 543.90 / point		<b>Rs 4351.20</b>
24	2.13.2 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 888.59 / each		<b>Rs 888.59</b>
25	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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	
Net Total Quantity		96.000 each
Say 96.000 each @ Rs 226.73 / each		<b>Rs 21766.08</b>
26	2.10.4 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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. Triple pole	
Net Total Quantity		4.000 each
Say 4.000 each @ Rs 917.42 / each		<b>Rs 3669.68</b>
27	1.24.1 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	
Net Total Quantity		93.000 each
Say 93.000 each @ Rs 110.09 / each		<b>Rs 10238.37</b>
28	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	

		Net Total Quantity	13.000 each
		Say 13.000 each @ Rs 149.41 / each	<b>Rs 1942.33</b>
29	1.24.4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet	
		Net Total Quantity	93.000 each
		Say 93.000 each @ Rs 106.16 / each	<b>Rs 9872.88</b>
30	1.24.5	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet	
		Net Total Quantity	13.000 each
		Say 13.000 each @ Rs 200.52 / each	<b>Rs 2606.76</b>
31	1.24.7	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.TV antenna socket outlet	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 127.13 / each	<b>Rs 127.13</b>
32	1.24.8	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Bell push	
		Net Total Quantity	3.000 each
		Say 3.000 each @ Rs 149.41 / each	<b>Rs 448.23</b>
33	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.	
		Net Total Quantity	41.000 each
		Say 41.000 each @ Rs 377.45 / each	<b>Rs 15475.45</b>
34	1.27.1	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.1 or 2 Module (75mmX75mm)	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 229.36 / each	<b>Rs 229.36</b>
35	1.27.2	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)	
		Net Total Quantity	32.000 each
		Say 32.000 each @ Rs 242.46 / each	<b>Rs 7758.72</b>

36	1.27.4 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.6 Module (200mmX75mm)	
Net Total Quantity		37.000 each
Say 37.000 each @ Rs 338.13 / each		<b>Rs 12510.81</b>
37	1.38 Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 79.95 / each		<b>Rs 239.85</b>
38	90.4.5.2 Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackeles and blades and resistance type regulator working on 230V/240V single phase A/C	
Net Total Quantity		41.000 each
Say 41.000 each @ Rs 1857.50 / each		<b>Rs 76157.50</b>
39	od15627/2019_2020 Supply, installation , testing and commissioning of exhaust fans of size up to 450mm in the existing opening, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the exhaust fan. 300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C	
Net Total Quantity		22.000 each
Say 22.000 each @ Rs 2205.15 / each		<b>Rs 48513.30</b>
40	90.2.1.6 Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FRLS PVC insulated stranded single core copper conductor cable 650V grade, including providing switch board main and continuous earthing with No.14 SWG bare copper,required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (RoHS compliant modular accessories).Combined plug point with 6 A, 5 pin plug socket controlled by 6 A, switch in the same switch board as that of light points	
Net Total Quantity		19.000 each
Say 19.000 each @ Rs 428.90 / each		<b>Rs 8149.10</b>

41	od15628/2019_2020 Supply and laying of one number of 10 SWG Copper wire on wall/ surface/ recessed conduit etc.	
Net Total Quantity		450.000 metre
Say 450.000 metre @ Rs 57.24 / metre		<b>Rs 25758.00</b>
42	90.3.19.3 Supply conveyance, installation, testing and commissioning the light fittings of following types made from CRCA sheet 0.5mm thickness with all accessories and lamps directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required 1200 mm 1X20W LED Lamp with box type fixture	
Net Total Quantity		87.000 each
Say 87.000 each @ Rs 1174.12 / each		<b>Rs 102148.44</b>
43	90.3.24.3 Supply & installation of light fittings suspended on ball & socket arrangement with 19 mm down rod Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required. 1200 mm 1X20W LED Lamp with box type fixture	
Net Total Quantity		30.000 each
Say 30.000 each @ Rs 1430.16 / each		<b>Rs 42904.80</b>
44	5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 10863.56 / set		<b>Rs 21727.12</b>
45	5.8 Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earthelectrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 779.81 / metre		<b>Rs 23394.30</b>
46	5.14 Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 914.80 / metre		<b>Rs 27444.00</b>

47	od68396/2019_2020 SITC of 10KVA UPS with 42Ah SMF battery for 1 hour back-up complete with all accessories as required.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 292832.38 / each		<b>Rs 292832.38</b>
48	od68521/2019_2020 Supply, installation, testing and commissioning of 5W LED wall light working on 230V, 50 Hz AC, including giving connections as required.	
Net Total Quantity		21.000 each
Say 21.000 each @ Rs 317.92 / each		<b>Rs 6676.32</b>
49	od68522/2019_2020 SITC of Rust Resistant and Weather-Proof Bulk head light fixture with 9W LED lamp, IP 65 protection complete with all other accessories as required.	
Net Total Quantity		17.000 no
Say 17.000 no @ Rs 613.63 / no		<b>Rs 10431.71</b>
<b>3 FRONT GATE WITH SECURITY CABIN CIVIL WORKS</b>		
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil	
Net Total Quantity		6.944 cum
Say 6.944 cum @ Rs 165.07 / cum		<b>Rs 1146.25</b>
2	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	
Net Total Quantity		4.200 cum
Say 4.200 cum @ Rs 164.81 / cum		<b>Rs 692.20</b>
3	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	
Net Total Quantity		1.170 cum
Say 1.170 cum @ Rs 5869.06 / cum		<b>Rs 6866.80</b>
4	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for: Foundations, footings, bases for columns	

		Net Total Quantity	2.850 sqm
		Say 2.850 sqm @ Rs 254.19 / sqm	<b>Rs 724.44</b>
5	4.11	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	
		Net Total Quantity	4.560 sqm
		Say 4.560 sqm @ Rs 419.72 / sqm	<b>Rs 1913.92</b>
6	5.9.3	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	
		Net Total Quantity	12.000 sqm
		Say 12.000 sqm @ Rs 553.47 / sqm	<b>Rs 6641.64</b>
7	5.9.5	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers	
		Net Total Quantity	3.750 sqm
		Say 3.750 sqm @ Rs 449.40 / sqm	<b>Rs 1685.25</b>
8	5.9.16.1	Centering and shuttering including strutting, etc. and removal of form for:Edges of slabs and breaks in floors and wallsUnder 20 cm wide	
		Net Total Quantity	15.200 metre
		Say 15.200 metre @ Rs 160.16 / metre	<b>Rs 2434.43</b>
9	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	
		Net Total Quantity	243.000 kilogram
		Say 243.000 kilogram @ Rs 74.18 / kilogram	<b>Rs 18025.74</b>
10	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 as per direction of Engineer - in-charge. 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	
		Net Total Quantity	3.750 cum
		Say 3.750 cum @ Rs 9501.92 / cum	<b>Rs 35632.20</b>



11	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	
Net Total Quantity		6.990 cum
Say 6.990 cum @ Rs 5197.64 / cum		<b>Rs 36331.50</b>
12	50.6.1.8 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 ( 1 cement : 6 coarse sand etc complete	
Net Total Quantity		5.850 cum
Say 5.850 cum @ Rs 5733.71 / cum		<b>Rs 33542.20</b>
13	13.4.1 12 mm cement plaster of mix:1:4 ( 1 cement : 4 coarse sand)	
Net Total Quantity		41.800 sqm
Say 41.800 sqm @ Rs 237.02 / sqm		<b>Rs 9907.44</b>
14	13.4.2 12 mm cement plaster of mix:1:6 ( 1 cement : 6 coarse sand)	
Net Total Quantity		33.660 sqm
Say 33.660 sqm @ Rs 220.51 / sqm		<b>Rs 7422.37</b>
15	13.16.1 6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)	
Net Total Quantity		12.000 sqm
Say 12.000 sqm @ Rs 188.46 / sqm		<b>Rs 2261.52</b>
16	11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 600 x 600 mm.	
Net Total Quantity		12.000 sqm
Say 12.000 sqm @ Rs 1467.09 / sqm		<b>Rs 17605.08</b>
17	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	
Net Total Quantity		98.260 sqm
Say 98.260 sqm @ Rs 48.43 / sqm		<b>Rs 4758.73</b>

18	13.82.2 Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats	
Net Total Quantity		98.260 sqm
Say 98.260 sqm @ Rs 96.85 / sqm		<b>Rs 9516.48</b>
19	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 etc	
Net Total Quantity		32.400 kg
Say 32.400 kg @ Rs 147.38 / kg		<b>Rs 4775.11</b>
20	9.147.5 Providing and fixing factory made uPVC white colour casement/casement cumfixed glazed windows comprising of uPVC multi-chambered frame, sash andmullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm thick galvanized mild steel section made from roll forming process of requiredlength (shape & size according to uPVC profile), uPVC extruded glazing beads ofappropriate dimension, EPDM gasket, stainless steel (SS 304 grade) frictionhinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps andnecessary stainless steel screws etc. Profile of frame & sash shall be mitred cutand fusion welded at all corners, mullion (if required) shall be also fusion weldedincluding drilling of holes for fixing hardware's and drainage of water etc. Afterfixing frame the gap between frame and adjacent finished wall shall be filled withweather proof silicon sealant over backer rod of required size and of approvedquality, all complete as per approved drawing & direction of Engineer-in-Charge.(Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerancein dimension i.e. in depth & width of profile shall be acceptable.Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm)made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both havingwall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead ofappropriate dimension. (Area of window above 1.50 sqm).	
Net Total Quantity		3.240 sqm
Say 3.240 sqm @ Rs 10973.92 / sqm		<b>Rs 35555.50</b>
21	21.3.2 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - in -Charge. ( Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness	
Net Total Quantity		3.240 sqm
Say 3.240 sqm @ Rs 1315.78 / sqm		<b>Rs 4263.13</b>

22	od15597/2019_2020 Supplying fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC  Wrapped WPC Jamb with front side Architrave other side Tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)	
Net Total Quantity		3.240 sqm of door area
Say 3.240 sqm of door area @ Rs 8461.53 / sqm of door area		<b>Rs 27415.36</b>
23	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.	
Net Total Quantity		470.500 kg
Say 470.500 kg @ Rs 88.66 / kg		<b>Rs 41714.53</b>
24	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	
Net Total Quantity		55.700 sqm
Say 55.700 sqm @ Rs 38.14 / sqm		<b>Rs 2124.40</b>
25	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats	
Net Total Quantity		55.700 sqm
Say 55.700 sqm @ Rs 98.36 / sqm		<b>Rs 5478.65</b>

26	25.7 Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing. The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item. s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminium Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.	
Net Total Quantity		32.500 sqm
Say 32.500 sqm @ Rs 4463.77 / sqm		<b>Rs 145072.53</b>
<b>4 FRONT GATE WITH SECURITY CABIN M and E WORKS</b>		
1	90.11.1.10 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP 42/43)	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 2759.17 / each		<b>Rs 2759.17</b>
2	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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	
Net Total Quantity		12.000 each
Say 12.000 each @ Rs 226.73 / each		<b>Rs 2720.76</b>

3	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated 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. FRLSPVC insulated copper conductor single core cable etc as required.Group C	
Net Total Quantity		6.000 point
Say 6.000 point @ Rs 992.12 / point		<b>Rs 5952.72</b>
4	1.14.1 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 required2x1.5 sq.mm + 1x1.5 sq.mm earth wire	
Net Total Quantity		290.000 metre
Say 290.000 metre @ Rs 146.79 / metre		<b>Rs 42569.10</b>
5	od15528/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	
Net Total Quantity		40.000 metre
Say 40.000 metre @ Rs 103.90 / metre		<b>Rs 4156.00</b>
6	od68401/2019_2020 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with all other accessories as required.	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 1180.49 / no		<b>Rs 7082.94</b>
7	od68402/2019_2020 SITC Of feeder pillar complete with the following accessories. Incomer: 40A, DP Isolator. 40A, DP, RCCB, 100mA. Timer control with contactor. Auto/ Manual switch. Outgoing: 10A, SP MCB - 4 Nos.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 19432.33 / each		<b>Rs 19432.33</b>
8	od68403/2019_2020 SITC of weather proof pillar light fittings with 9W LED lamp, IP65 for outdoor purpose pre wired and complete with all other accessories as required.	
Net Total Quantity		12.000 no
Say 12.000 no @ Rs 1401.18 / no		<b>Rs 16814.16</b>
9	od68404/2019_2020 SITC of 20/25W LED Surface mounting down light, working on 230V, 50Hz AC, complete with all other accessories as required.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 2422.87 / no		<b>Rs 4845.74</b>

10	od68405/2019_2020 SITC of 3W LED Recessed Spot light pre wired, working on 230V, 50Hz AC, complete with all other accessories as required.	
Net Total Quantity		4.000 no
Say 4.000 no @ Rs 502.08 / no		<b>Rs 2008.32</b>
11	od68394/2019_2020 Supply, installation, testing and commissioning of 5W LED wall light working on 230V, 50 Hz AC, including giving connections as required.	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 317.92 / each		<b>Rs 635.84</b>
12	od15556/2019_2020 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with all other accessories as required.	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 729.78 / no		<b>Rs 4378.68</b>
13	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 wire	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 179.55 / metre		<b>Rs 2693.25</b>
14	1.24.1 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 110.09 / each		<b>Rs 220.18</b>
15	od15568/2019_2020 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 139.00 / metre		<b>Rs 4170.00</b>
16	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 149.41 / each		<b>Rs 149.41</b>

17	1.24.4 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 106.16 / each		<b>Rs 212.32</b>
18	1.24.5 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 200.52 / each		<b>Rs 200.52</b>
19	1.27.2 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 242.46 / each		<b>Rs 242.46</b>
20	1.27.4 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.6 Module (200mmX75mm)	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 338.13 / each		<b>Rs 338.13</b>
21	2.13.1 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 874.17 / each		<b>Rs 874.17</b>
22	9.1.32 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 10 sq. mm (25mm)	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 266.05 / set		<b>Rs 532.10</b>
23	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 2792.89 / each		<b>Rs 2792.89</b>

24	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Upto 35 sq. mm	
Net Total Quantity		10.000 metre
Say 10.000 metre @ Rs 269.98 / metre		<b>Rs 2699.80</b>
25	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete withRCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.150 mm dia	
Net Total Quantity		20.000 metre
Say 20.000 metre @ Rs 530.79 / metre		<b>Rs 10615.80</b>
26	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm	
Net Total Quantity		42.000 metre
Say 42.000 metre @ Rs 23.59 / metre		<b>Rs 990.78</b>
27	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 32.77 / metre		<b>Rs 491.55</b>
28	90.2.1.6 Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FRLS PVC insulated stranded single core copper conductor cable 650V grade, including providing switch board main and continuous earthing with No.14 SWG bare copper,required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (RoHS compliant modular accessories).Combined plug point with 6 A, 5 pin plug socket controlled by 6 A, switch in the same switch board as that of light points	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 428.90 / each		<b>Rs 857.80</b>



29	od15607/2019_2020 Supply, installation , testing and commissioning of Wall fan of 300mm sweep dia on wall, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the Wall fan. 300mm sweep wall fan working on 230 V A/C	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 2269.15 / each		<b>Rs 4538.30</b>
30	od15609/2019_2020 Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 4 kg capacity with initial charger and installation brackets.Make - Safex / Warrior / Intime	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 2103.99 / each		<b>Rs 4207.98</b>
<b>5 COMPOUND WALL</b>		
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	
Net Total Quantity		122.200 cum
Say 122.200 cum @ Rs 165.07 / cum		<b>Rs 20171.55</b>
2	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	
Net Total Quantity		12.340 cum
Say 12.340 cum @ Rs 5869.06 / cum		<b>Rs 72424.20</b>
3	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns	
Net Total Quantity		110.400 sqm
Say 110.400 sqm @ Rs 254.19 / sqm		<b>Rs 28062.58</b>
4	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	
Net Total Quantity		475.920 cum
Say 475.920 cum @ Rs 164.81 / cum		<b>Rs 78436.38</b>

5	4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:1/2:3 (cement : 11/2 coarse sand : 3 graded stone aggregate 20 mm nominal size)	
Net Total Quantity		3.200 cum
Say 3.200 cum @ Rs 7764.85 / cum		<b>Rs 24847.52</b>
6	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	
Net Total Quantity		56.000 cum
Say 56.000 cum @ Rs 5197.64 / cum		<b>Rs 291067.84</b>
7	50.6.1.8 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 ( 1 cement : 6 coarse sand etc complete	
Net Total Quantity		28.500 cum
Say 28.500 cum @ Rs 5733.71 / cum		<b>Rs 163410.74</b>
8	13.4.2 12 mm cement plaster of mix:1:6 ( 1 cement : 6 coarse sand)	
Net Total Quantity		432.000 sqm
Say 432.000 sqm @ Rs 220.51 / sqm		<b>Rs 95260.32</b>
9	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	
Net Total Quantity		432.000 sqm
Say 432.000 sqm @ Rs 48.43 / sqm		<b>Rs 20921.76</b>
10	13.82.2 Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats	
Net Total Quantity		432.000 sqm
Say 432.000 sqm @ Rs 96.85 / sqm		<b>Rs 41839.20</b>
11	10.16.1 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes	
Net Total Quantity		648.000 kg

Say 648.000 kg @ Rs 118.28 / kg		<b>Rs 76645.44</b>
12	13.84.2 Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats	
Net Total Quantity		68.000 sqm
Say 68.000 sqm @ Rs 98.36 / sqm		<b>Rs 6688.48</b>
<b>6 ROADS AND ANCILLARY WORKS</b>		
1	16.1 Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	
Net Total Quantity		221.000 sqm
Say 221.000 sqm @ Rs 118.09 / sqm		<b>Rs 26097.89</b>
2	16.78.3 Construction of granular sub- base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge.With material conforming to Grade - III ( size range 26.5 mm to 0.075 mm) having CBR Value - 20	
Net Total Quantity		22.100 cum
Say 22.100 cum @ Rs 2531.42 / cum		<b>Rs 55944.38</b>
3	16.79 Providing , laying spreading and compacting graded stone aggregate ( size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub - base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer - in- Charge.	
Net Total Quantity		33.150 cum
Say 33.150 cum @ Rs 2794.53 / cum		<b>Rs 92638.67</b>
4	51.16.PC.1pb Primer Coat - Bitumen Emulsion (SS-1) - Using Packed Bitumen Rates Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 (low porosity).	
Net Total Quantity		221.000 sqm

Say 221.000 sqm @ Rs 55.96 / sqm		<b>Rs 12367.16</b>
5	od15533/2019_2020 2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete ( tack coat to be paid for separately): With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt (DSR ITEM NO.16.33.1)	
Net Total Quantity		221.000 sqm
Say 221.000 sqm @ Rs 222.31 / sqm		<b>Rs 49130.51</b>
6	51.16.31.1.2 Tack Coat - RS Bitumen Emulsion - On bituminous surface @ 0.25 kg /sqm Providing and applying tack coat using bitumen emulsion conforming to IS : 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. 1. With Rapid Setting Bitumen Emulsion 2. On bituminous surface @ 0.25 kg /sqm	
Net Total Quantity		221.000 sqm
Say 221.000 sqm @ Rs 10.40 / sqm		<b>Rs 2298.40</b>
7	od15547/2019_2020 Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.(DSR ITEM NO 16.40)	
Net Total Quantity		221.000 sqm
Say 221.000 sqm @ Rs 77.97 / sqm		<b>Rs 17231.37</b>
8	od15590/2019_2020 Providing and laying average 100 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate mixed with sand Zone V, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.	
Net Total Quantity		43.000 sqm
Say 43.000 sqm @ Rs 256.99 / sqm		<b>Rs 11050.57</b>
9	16.42 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size ) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete	
Net Total Quantity		4.300 cum
Say 4.300 cum @ Rs 7213.28 / cum		<b>Rs 31017.10</b>
10	16.45 Providing and fixing in position pre- moulded joint filler in expansion joints.	

		Net Total Quantity	150.000 per cm depth per cm width per meter length
		Say 150.000 per cm depth per cm width per meter length @ Rs 2.88 / per cm depth per cm width per meter length	<b>Rs 432.00</b>
11	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	
		Net Total Quantity	43.000 sqm
		Say 43.000 sqm @ Rs 1900.96 / sqm	<b>Rs 81741.28</b>
12	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 ( 1 cement : 3 coarse sand) , including making joints with or without grooves ( thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge ( length of finished kerb edging shall be measured for payment ). ( Precast C.C. kerb stone shall be approved by Engineer-in-Charge)	
		Net Total Quantity	6.450 cum
		Say 6.450 cum @ Rs 6569.58 / cum	<b>Rs 42373.79</b>
13	od15598/2019_2020	two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	
		Net Total Quantity	17.200 sqm
		Say 17.200 sqm @ Rs 88.78 / sqm	<b>Rs 1527.02</b>
14	od15599/2019_2020	Providing and fixing PVC pipe pieces in weep holes by hacking, jointing and make good, 110 mm pipe 4 kgf/cm <sup>2</sup>	
		Net Total Quantity	3.190 metre
		Say 3.190 metre @ Rs 221.92 / metre	<b>Rs 707.92</b>
15	od69782/2019_2020	Construct foundation for lighting pole using M30 concrete of overall size 65x65x160 cm and 4 nos M20x75cm long anchor bolt set in concrete using 4mm thick anchor plate as per the drawing and specification.	
		Net Total Quantity	4.000 each
		Say 4.000 each @ Rs 10154.28 / each	<b>Rs 40617.12</b>

16	od15613/2019_2020 Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of average inside dimensions 40cm wide x 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as per drawing and specification	
Net Total Quantity		59.000 metre
Say 59.000 metre @ Rs 5346.88 / metre		<b>Rs 315465.92</b>
<b>7 LAND DEVELOPMENT FOR MAIN BUILDING AND PLAYGROUND</b>		
1	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	
Net Total Quantity		1300.000 sqm
Say 1300.000 sqm @ Rs 9.44 / sqm		<b>Rs 12272.00</b>
2	2.28.1 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.All kinds of soil	
Net Total Quantity		1300.000 sqm
Say 1300.000 sqm @ Rs 18.28 / sqm		<b>Rs 23764.00</b>
3	2.2.1 Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m:All kinds of soil	
Net Total Quantity		550.000 cum
Say 550.000 cum @ Rs 560.81 / cum		<b>Rs 308445.50</b>
<b>8 EXTERNAL WATER SUPPLY</b>		
1	od15554/2019_2020 Supply and install Zoloto or approved equivalent 50mm full bore forged brass ball valve including all necessary fittings.	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 4231.99 / each		<b>Rs 25391.94</b>
2	18.19.4.1 Providing and fixing gun metal non-return valve of approved quality (screwed end):50 mm nominal boreHorizontal	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 1294.48 / each		<b>Rs 2588.96</b>

3	18.19.5.1 Providing and fixing gun metal non-return valve of approved quality (screwed end):65 mm nominal boreHorizontal		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 2317.80 / each	<b>Rs 2317.80</b>
4	od15502/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.		
		Net Total Quantity	12.000 cum
		Say 12.000 cum @ Rs 5516.39 / cum	<b>Rs 66196.68</b>
5	18.32.1 Constructing masonry chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S (non modular) bricks of class designation 7.5		
		Net Total Quantity	4.000 each
		Say 4.000 each @ Rs 1566.63 / each	<b>Rs 6266.52</b>
6	od15580/2019_2020 Supply installation testing and commissioning of water treatment plant 5000 LPH capacity with Sand filter,Carbon filter, Iron removal filter,Float switches 4 nos,Filter feed pump (5000 lph,30-35 m head),chemical dosing pump((0-10) lph with all accessories complete as per the direction of engineer in charge		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 295297.44 / each	<b>Rs 295297.44</b>
7	od15584/2019_2020 Supply ,Installation testing and commissioning of Transfer pump 5HP, 3 phase ,20m head including accessories.		
		Net Total Quantity	6.000 each
		Say 6.000 each @ Rs 39305.41 / each	<b>Rs 235832.46</b>
8	od15587/2019_2020 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 10Kg/cm2		
		Net Total Quantity	140.000 metre
		Say 140.000 metre @ Rs 295.88 / metre	<b>Rs 41423.20</b>

9	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm dia 10Kgf/cm2	
Net Total Quantity		60.000 metre
Say 60.000 metre @ Rs 224.52 / metre		<b>Rs 13471.20</b>
<b>9 EXTERNAL SEWERAGE SYSTEM</b>		
1	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm2	
Net Total Quantity		90.000 metre
Say 90.000 metre @ Rs 428.72 / metre		<b>Rs 38584.80</b>
2	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2	
Net Total Quantity		108.000 metre
Say 108.000 metre @ Rs 805.57 / metre		<b>Rs 87001.56</b>
3	19.7.1.1 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design:Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg):With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	
Net Total Quantity		8.000 each
Say 8.000 each @ Rs 11315.85 / each		<b>Rs 90526.80</b>
4	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F.P.S. ( non modular ) bricks of class designation 7.5	
Net Total Quantity		1.200 metre
Say 1.200 metre @ Rs 7494.80 / metre		<b>Rs 8993.76</b>



5	19.7.2.1 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design:Inside size 120x90 cm and 90 cm deep including C.I. cover with frame ( medium duty ) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg ( weight of cover 58 kg and weight of frame 58 kg):With common burnt clay F.P.S ( non modular) bricks of class designation 7.5	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 24144.40 / each		<b>Rs 48288.80</b>
6	19.7.3.1 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design:Inside size 120x 90 cm and 90 cm deep including C.I. cover with frame ( heavy duty ) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg ( weight of cover 108 kg and weight of frame 100 kg)With common burnt clay F.P.S. ( non modular) bricks of class designation 7.5	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 30121.85 / each		<b>Rs 60243.70</b>
7	19.8.2.1 Extra for depth for manholesSize 120x90 cmWith common burnt clay F.P.S. ( non modular ) bricks of class designation 7.5	
Net Total Quantity		0.300 metre
Say 0.300 metre @ Rs 8978.53 / metre		<b>Rs 2693.56</b>
8	od15502/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.	
Net Total Quantity		28.360 cum
Say 28.360 cum @ Rs 5516.39 / cum		<b>Rs 156444.82</b>
9	51.19.ST4 Supplying and installing ready made PVC Septic tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (Provision for CC/RCC/Sand/06mm aggregate for the preparation of bed shall be paid separately) 4. 35 to 50 flush capacity	
Net Total Quantity		2.000 each

Say 2.000 each @ Rs 40863.21 / each		<b>Rs 81726.42</b>
10	19.33 Constructing soak pit 1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 2773.75 / each		<b>Rs 8321.25</b>
<b>10 RAIN WATER DRAINAGE</b>		
1	50.18.9.10.1 Providing and fixing PVC pipes including jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2	
Net Total Quantity		120.000 metre
Say 120.000 metre @ Rs 805.57 / metre		<b>Rs 96668.40</b>
2	od15502/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.	
Net Total Quantity		21.980 cum
Say 21.980 cum @ Rs 5516.39 / cum		<b>Rs 121250.25</b>
3	od15509/2019_2020 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design: Inside size 45x45 cm and 60 cm deep including C.I. cover with frame (medium duty) 300 mmdia internal dimensions, :With Sewer bricks conforming to IS : 4885	
Net Total Quantity		10.000 each
Say 10.000 each @ Rs 6307.29 / each		<b>Rs 63072.90</b>
4	19.7.1.1 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design:Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg):With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	
Net Total Quantity		10.000 each

Say 10.000 each @ Rs 11315.85 / each		<b>Rs 113158.50</b>
5	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F.P.S. ( non modular ) bricks of class designation 7.5	
Net Total Quantity		1.500 metre
Say 1.500 metre @ Rs 7494.80 / metre		<b>Rs 11242.20</b>
6	od15517/2019_2020 Supplying and installing ready made Pre cast RCC Water tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (5000 L Capacity )	
Net Total Quantity		7.000 each
Say 7.000 each @ Rs 49797.50 / each		<b>Rs 348582.50</b>
7	od15521/2019_2020 Supply all material and construct RCC rain water filtration tank cum collection tank of overall size 5.1x2.65x1.60m using 1:1.5:3 concrete mix etc. all complete as per the drawing and specification.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 213604.42 / each		<b>Rs 213604.42</b>
<b>11 FACADE IMPROVEMENT OF EXISTING BUILDINGS</b>		
1	14.46 Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	
Net Total Quantity		1120.000 sqm
Say 1120.000 sqm @ Rs 14.15 / sqm		<b>Rs 15848.00</b>
2	14.53.1 Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work	
Net Total Quantity		1120.000 sqm
Say 1120.000 sqm @ Rs 72.41 / sqm		<b>Rs 81099.20</b>
3	14.54.1 Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade:One or more coats on old work	
Net Total Quantity		122.400 sqm
Say 122.400 sqm @ Rs 67.23 / sqm		<b>Rs 8228.95</b>
<b>12 ELV SYSTEM</b>		
1	od15541/2019_2020 Supply, installation, testing and commissioning of LAN socket.	
Net Total Quantity		18.000 no

		Say 18.000 no @ Rs 260.00 / no	<b>Rs 4680.00</b>
2	od15548/2019_2020	Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M	
		Net Total Quantity	18.000 no
		Say 18.000 no @ Rs 234.00 / no	<b>Rs 4212.00</b>
3	od16275/2019_2020	Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	
		Net Total Quantity	1.000 no
		Say 1.000 no @ Rs 7600.00 / no	<b>Rs 7600.00</b>
4	od16018/2019_2020	Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE Switch.	
		Net Total Quantity	1.000 no
		Say 1.000 no @ Rs 26805.00 / no	<b>Rs 26805.00</b>
5	od15560/2019_2020	Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.	
		Net Total Quantity	56.000 no
		Say 56.000 no @ Rs 260.00 / no	<b>Rs 14560.00</b>
6	od15569/2019_2020	Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch Panel.	
		Net Total Quantity	1.000 no
		Say 1.000 no @ Rs 1888.00 / no	<b>Rs 1888.00</b>
7	od16499/2019_2020	Supply and drawing of CAT6 4 pair cable including all necessary connector.	
		Net Total Quantity	1150.000 metre
		Say 1150.000 metre @ Rs 39.00 / metre	<b>Rs 44850.00</b>
8	od15497/2019_2020	Supply, Installation, Testing and commissioning Of distribution box for CCTV 6Ux600Wx600D With Front Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10	
		Net Total Quantity	3.000 no
		Say 3.000 no @ Rs 7611.00 / no	<b>Rs 22833.00</b>
9	od16038/2019_2020	Supply, installation, testing and commissioning of wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key,Side Openable Panels with Lock & Key,6Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10	

		Net Total Quantity	4.000 no
		Say 4.000 no @ Rs 8625.00 / no	<b>Rs 34500.00</b>
10	od16168/2019_2020 Supply, installation, testing and commissioning of Outdoor IR IP bullet camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity,with IR 480TV lines.		
		Net Total Quantity	8.000 no
		Say 8.000 no @ Rs 10263.00 / no	<b>Rs 82104.00</b>
11	od16178/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP  2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.		
		Net Total Quantity	24.000 no
		Say 24.000 no @ Rs 5945.00 / no	<b>Rs 142680.00</b>
12	od69120/2019_2020 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour monitor complete with all other accessories as required.		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 9287.00 / each	<b>Rs 9287.00</b>
13	od15594/2019_2020 SITC of FLOOR RACK 19" 27U 600 mmx 600mm depth with Front and back perforated Steel Door, Side Openable Panels, Castors, Heavy Duty Shelf - 3 Nos, Vertical PDU 6 x5Amps - 1 No, Fan Housing Unit with 2 Fans, Mounting Hardware Screws.		
		Net Total Quantity	1.000 no
		Say 1.000 no @ Rs 30680.00 / no	<b>Rs 30680.00</b>
14	od15526/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.		
		Net Total Quantity	240.000 no
		Say 240.000 no @ Rs 78.00 / no	<b>Rs 18720.00</b>
15	od15531/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors		
		Net Total Quantity	6.000 no
		Say 6.000 no @ Rs 2390.00 / no	<b>Rs 14340.00</b>
16	od16184/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10		
		Net Total Quantity	16.000 no
		Say 16.000 no @ Rs 1350.00 / no	<b>Rs 21600.00</b>

17	od15537/2019_2020 Supply, Installation, Testing and commissioning of Distribution box for PA distribution made out of 16 SWG CRCA sheet with lockable door arrangement having connectors (10 NOS) suitable for 1.5sqmm wire with facility for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 979.00 / no		<b>Rs 1958.00</b>
18	od16206/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC1,2,3,4:66DB;AUX 1:80 DB,THD- LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 28325.00 / no		<b>Rs 56650.00</b>
19	od16183/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 34000.00 / no		<b>Rs 34000.00</b>
20	od16185/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.	
Net Total Quantity		1.000 set
Say 1.000 set @ Rs 24590.00 / set		<b>Rs 24590.00</b>
21	od16221/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 14220.00 / no		<b>Rs 28440.00</b>
22	od15601/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch Panel.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 874.00 / no		<b>Rs 1748.00</b>
23	od15603/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 16 Port Network Switch to provide networks and internet on class room etc.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 7375.00 / no		<b>Rs 7375.00</b>

24	od15608/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port Network Switch to provide networks and internet on class room etc.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 4130.00 / no		<b>Rs 8260.00</b>
25	od15572/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors	
Net Total Quantity		30.000 no
Say 30.000 no @ Rs 84.00 / no		<b>Rs 2520.00</b>
26	od15574/2019_2020 SITC Of NVR 8 Channel for CCTV	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 8500.00 / no		<b>Rs 8500.00</b>
27	od15612/2019_2020 Supply, installation, testing and commissioning of Telephone socket.	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 260.00 / no		<b>Rs 2600.00</b>
28	od15614/2019_2020 Supply,Installation, Testing & commissioning of Telephone of approved makes including all other accessories for connection.	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 1333.00 / no		<b>Rs 13330.00</b>
29	od15615/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.	
Net Total Quantity		40.000 metre
Say 40.000 metre @ Rs 78.00 / metre		<b>Rs 3120.00</b>
30	od15616/2019_2020 Supply & Installation of UG telephone cable jelly filled, 10 pair	
Net Total Quantity		40.000 metre
Say 40.000 metre @ Rs 145.00 / metre		<b>Rs 5800.00</b>
31	od15617/2019_2020 Supply, installation, testing and commissioning of 20 PAIR BOX WITH KRONE MODULES	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 1387.00 / no		<b>Rs 1387.00</b>

32	od16225/2019_2020 Supply, installation, testing and commissioning of Telephone system: NEC Digital Key Telephone System Model-SL2100 32 Bit Micro Processor Configured as 08 P&T lines 48 Hybrid Ports EXPANDABLE MODEL UP TO 128 PCM/TDM 100 % Non-Blocking Inbuilt Conference,32 party Auto attendant (single channel) CLI based call routing AND ALL STANDARD FEATURES	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 200650.00 / no		<b>Rs 200650.00</b>
33	1.18.2 Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor,unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.2 Pair	
Net Total Quantity		120.000 metre
Say 120.000 metre @ Rs 24.90 / metre		<b>Rs 2988.00</b>
34	1.18.3 Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor,unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.4 Pair	
Net Total Quantity		100.000 metre
Say 100.000 metre @ Rs 36.70 / metre		<b>Rs 3670.00</b>
<b>13 LIGHTNING PROTECTION</b>		
1	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 metre long etc. with charcoal/ coke and salt as required.	
Net Total Quantity		5.000 set
Say 5.000 set @ Rs 5670.97 / set		<b>Rs 28354.85</b>
2	6.2 Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 398.42 / each		<b>Rs 796.84</b>
3	6.7 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	
Net Total Quantity		145.000 metre
Say 145.000 metre @ Rs 86.50 / metre		<b>Rs 12542.50</b>



4	6.8 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightningconductor complete as required.(For vertical run)	
Net Total Quantity		100.000 metre
Say 100.000 metre @ Rs 131.06 / metre		<b>Rs 13106.00</b>
5	6.12 Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 95.67 / each		<b>Rs 478.35</b>
6	6.14 Providing and laying G.I. tape 32 mm X 6 mm from earth. electrode directly in ground as required.	
Net Total Quantity		120.000 metre
Say 120.000 metre @ Rs 146.79 / metre		<b>Rs 17614.80</b>
<b>14 EXTERNAL LIGHTING</b>		
1	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Upto 35 sq. mm	
Net Total Quantity		70.000 metre
Say 70.000 metre @ Rs 269.98 / metre		<b>Rs 18898.60</b>
2	1.14.1 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 required2x1.5 sq.mm + 1x1.5 sq.mm earth wire	
Net Total Quantity		0.000 metre
Say 0.000 metre @ Rs 146.79 / metre		<b>Rs 0.00</b>
3	od15510/2019_2020 Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 151.00 / metre		<b>Rs 4530.00</b>
4	od15518/2019_2020 Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		80.000 metre
Say 80.000 metre @ Rs 95.00 / metre		<b>Rs 7600.00</b>

5	od16259/2019_2020 Supply, installation, testing and commissioning of 3 Meter street light pole single arm with 13/15 W, 1500 lumen LED, IP 66 street light fitting with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply.	
Net Total Quantity		4.000 no
Say 4.000 no @ Rs 11596.59 / no		<b>Rs 46386.36</b>
6	od69145/2019_2020 SITC of 3 metre Hot dipped galvanised Octogonal pole in single section with 70mm top diameter, 130mm bottom diameter, 3mm sheet thickness, base plate dimensions of 200 x 200x 12 mm with 1.0 M long single arm bracket with 13/15W LED street light complete with all other accessories as required.	
Net Total Quantity		4.000 each
Say 4.000 each @ Rs 12852.94 / each		<b>Rs 51411.76</b>
7	od68402/2019_2020 SITC Of feeder pillar complete with the following accessories. Incomer: 40A, DP Isolator. 40A, DP, RCCB, 100mA. Timer control with contactor. Auto/ Manual switch. Outgoing: 10A, SP MCB - 4 Nos.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 19432.33 / each		<b>Rs 19432.33</b>
8	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 23.59 / metre		<b>Rs 353.85</b>
9	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 32.77 / metre		<b>Rs 491.55</b>
10	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete withRCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.150 mm dia	
Net Total Quantity		10.000 metre
Say 10.000 metre @ Rs 530.79 / metre		<b>Rs 5307.90</b>
11	9.1.8 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.3 X 16 sq. mm (25mm)	

	Net Total Quantity	2.000 set
	Say 2.000 set @ Rs 264.74 / set	<b>Rs 529.48</b>
<b>15 MAIN BUILDING HVAC SYSTEM</b>		
1	od15991/2019_2020 Supply ,installation,testing and commissioning of Modular type outdoor units equipped with minimum 2 Nos of highly efficient DC twin Rotary compressors with all inverter type compressor(s) only,special acryl pre-coated heat exchanger,low noise condenser fan,auto check function for connection error,auto address setting,with multiple outdoor units of capacities and quantities as mentioned below.Refrigerant Should be R410A .(4-6 HP)	
	Net Total Quantity	-1.000 each
	Say -1.000 each @ Rs 171173.00 / each	<b>Rs -171173.00</b>
2	od15993/2019_2020 Supplying & providing 2.00 TR Split A/C with high wall mounted unit. Carrier/Hitachi/Voltas/Blue Star.Mini 5Star rating ( Drain piping and Installation included).	
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 56304.00 / each	<b>Rs 56304.00</b>
3	od15995/2019_2020 Supply,installation,testing and commissioning of High-Wall indoor units with compact cooling coil,electronic expansion valve and multi speed fan motor,The blower shall be dynamicaly balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(2 TR), Make :- Carrier / ISI Equivalent.	
	Net Total Quantity	4.000 each
	Say 4.000 each @ Rs 42420.00 / each	<b>Rs 169680.00</b>
4	od16017/2019_2020 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.	
	Net Total Quantity	175.000 each
	Say 175.000 each @ Rs 2114.00 / each	<b>Rs 369950.00</b>
<b>16 EXISTING CLASS ROOMS CONVERTED TO SMART CLASS ROOMS</b>		
1	od15702/2019_2020 Supply,deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivelent Executive Visitor Net Chair,  Overall Size (approx): H-98 x W-58 x D-63.5 (cm)  Seat Height: 48 (cm)  Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr.  Tapestry will be tested quality such as stain test, ultra violet test,glue test  and color fastening with average weight of 450 grams per square meter  Cushioning: PU foam having density of 50 kgs/m3 for seat. Average  thickness of foam not less than 50 mm + 10 mm Polly foam.  Arm rest material: Polyurethane on Chrome  Shoes: Nylon Rubber	

		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 12120.25 / each	<b>Rs 121202.50</b>
2	<p>od18759/2019_2020</p> <p>Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equivalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students.&lt;br&gt;Overall size : H-760 x W-1040 x D-1000 (mm) &lt;br&gt;Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB )with 0.6mm laminated with 2mm PVC beading by hot melt glue&lt;br&gt;process all over 4 edges. &lt;br&gt;Bench Main frame tube &amp; Support tube of 32mm, 16swg ERW round tube. &lt;br&gt;Seat &amp; Back frame tube of 19mm, 16swg ERW round tube. &lt;br&gt;Seat &amp; Back support of 25x25x1.6mm (16swg) thick. square ERW tube. &lt;br&gt;Seat &amp; Back of 18swg. Perforated CRCA sheet IS 513. &lt;br&gt;Storage Bucket of 18swg. Perforated CRCA sheet IS 513. &lt;br&gt;Good quality PVC shoes &amp; cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.</p>		
		Net Total Quantity	150.000 each
		Say 150.000 each @ Rs 8936.58 / each	<b>Rs 1340487.00</b>
3	<p>od18761/2019_2020</p> <p>Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.</p>		
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 8239.68 / each	<b>Rs 82396.80</b>
4	<p>od18762/2019_2020</p> <p>Supply and fixing White Board: 4'x6' magnetic White</p>		
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 7382.49 / each	<b>Rs 73824.90</b>
5	<p>14.46</p> <p>Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.</p>		
		Net Total Quantity	1312.003 sqm
		Say 1312.003 sqm @ Rs 14.15 / sqm	<b>Rs 18564.84</b>
6	<p>14.54.1</p> <p>Painting with synthetic enamel paint of approved brand and manufacture of required colour to an give even shade:One or more coats on old work</p>		
		Net Total Quantity	177.000 sqm

Say 177.000 sqm @ Rs 67.23 / sqm		<b>Rs 11899.71</b>
7	14.53.1 Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work	
Net Total Quantity		1312.000 sqm
Say 1312.000 sqm @ Rs 72.41 / sqm		<b>Rs 95001.92</b>
8	11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer,in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 600x600 mm	
Net Total Quantity		307.123 sqm
Say 307.123 sqm @ Rs 1625.93 / sqm		<b>Rs 499360.50</b>
<b>17 FURNITURE FOR MAIN BUILDING</b>		
1	od15702/2019_2020 Supply,deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivalent Executive Visitor Net Chair,  Overall Size (approx): H-98 x W-58 x D-63.5 (cm)  Seat Height: 48 (cm)  Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr.  Tapestry will be tested quality such as stain test, ultra violet test,glue test  and color fastening with average weight of 450 grams per square meter  Cushioning: PU foam having density of 50 kgs/m <sup>3</sup> for seat. Average  thickness of foam not less than 50 mm + 10 mm Polly foam.  Arm rest material: Polyurethane on Chrome  Shoes: Nylon Rubber	
Net Total Quantity		11.000 each
Say 11.000 each @ Rs 12120.25 / each		<b>Rs 133322.75</b>
2	od18759/2019_2020 Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equivalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students. Overall size : H-760 x W-1040 x D-1000 (mm)  Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB )with 0.6mm laminated with 2mm PVC beading by hot melt glue process all over 4 edges.  Bench Main frame tube & Support tube of 32mm, 16swg ERW round tube.  Seat & Back frame tube of 19mm, 16swg ERW round tube.  Seat & Back support of 25x25x1.6mm (16swg) thick. square ERW tube.  Seat & Back of 18swg. Perforated CRCA sheet IS 513.  Storage Bucket of 18swg. Perforated CRCA sheet IS 513.  Good quality PVC shoes & cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.	
Net Total Quantity		45.000 each
Say 45.000 each @ Rs 8936.58 / each		<b>Rs 402146.10</b>

3	od18761/2019_2020 Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 8239.68 / each		<b>Rs 41198.40</b>
4	od19132/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make- JSF 102 A) or approved equivalent JALARAM Multipurpose storage cabinet with 2 adjustable shelves and 1 full locker. Overall size: H-1980 x W-915 x D-485(mm) (H-78"xW-36"x D-19") Material Specifications: The raw material used in cupboard will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. The cupboard should have welded construction with MIG welding process. The material used for constructing the cupboard should be prime quality Cold Rolled Close Annealed (CRCA) Steel (for doors and shelves 1.0 mm & other parts as per functional requirements) The doors provided will be full height steel hinged doors The handle provided will be matching, easy to grip, sleek and elegant. The Cupboard will have a 3 way locking Mechanism Minimum 6 levers (With duplicate keys) mechanism with shooting bolt arrangement. Shelving: The shelving will be Height wise Adjustable and Shelf Mounting. The Uniformly Distributed Load (UDL) Capacity per each full shelf will be 40 Kg at least. The cupboard will have 2 numbers of adjustable and 1 fixed full shelves with 1 full locker. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust.	
Net Total Quantity		7.000 each
Say 7.000 each @ Rs 17439.92 / each		<b>Rs 122079.44</b>
5	od19133/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JED 1512) or approved equivalent Executive Desk with side unit and credenza. Desktop mounted on SS tubular legs and specially designed pedestal storage with utility spaces inspired by your needs. Size: (A) Main Desk : W-2000 x D-900 x H-750 mm (B) Side Unit : W-1050 x D-500 x H-750mm (C) Credenza : W-2000 x D-400 x H-1190mm	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 181867.67 / each		<b>Rs 181867.67</b>

6	od19134/2019_2020 Supply, deliver and place registered branded (JALARAM Make-JEC 2017(D)) or approved equivalent Executive High Back Revolving Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. Leatherette Finish, High quality mould foam cushion, Die-Cast Aluminium with buffing pedestal, 5 Position locking system with swivel mechanism, Chrome Finished Armrest, Anti-Shock and Synchro Tilt Mechanism , Adjustable cozy armrest , Overall Size (approx) :-H: 117.0 - 126.5 x W:75 x D:75 (cm) ,Seat Height:- 44-54 (cm) Front Pivot Synchro Mechanism: This mechanism helps you experience the effect of your body angle opening out, for maximum relaxation, while your feet remain firmly on the ground. 5-Position Locking: The backrest can be locked in 5 different positions, giving you firm support for concentrated work. Its anti-shock mechanism prevents the backrest from impacting the user when the lock is released. Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness, which not only gives you a soft feeling on first contact but also provides a firm support to ensure hours of comfortable seating, Swivel Mechanism: The swivel mechanism allows for a complete 3600 lateral movement. This prevents you from straining over your shoulders and back to reach out for papers and phones kept on either side of your table, ensuring mobility while working. Twin Wheel Castors: The twin wheel castors facilitates ease of movement.	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 23988.46 / each		<b>Rs 71965.38</b>
7	od19135/2019_2020 Supply, deliver and place registered branded (JALARAM Make-JEC 2017(F)) or approved equivalent Executive Visitor Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. With Leatherette Finish Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness.	
Net Total Quantity		12.000 each
Say 12.000 each @ Rs 17499.16 / each		<b>Rs 209989.92</b>
8	od19136/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM make-JED 200) or approved equivalent Chief Executive Suite with PU coated 36 mm post formed top, Executive Return Unit & 3 Drawer Pedestal Unit,Size of the main Table: W-250 x D-110 x H-75 cm, Size of the Pedestal for Main Table: W-42.5 x D-80 cm, Size of Return Unit: W-127.5 x D-58 cm ,Size of the Pedestal for Return Unit: W-42.5xD-58 cm	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 144888.99 / each		<b>Rs 144888.99</b>
9	od19137/2019_2020 Supply, deliver and place registered branded (JALARAM make JED 220) or approved equivalent Executive Desk elegant looking main desk with mobile pedestal and return unit. A real beauty of the blend of wood and steel. Main Desk Size: W-180 x D-90 x H-75 (cm) Joining Top (Black Finish) Size: W-105 x D-120 (cm) Fixed Side Return Desk Size :W-120 x D-60 x H-72(cm) Mobile Pedestal Size: W-40.5 x D-57 x H-50(cm).	
Net Total Quantity		1.000 each

Say 1.000 each @ Rs 73561.28 / each		<b>Rs 73561.28</b>
10	od19138/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM Make-JSS 908) or approved equivalent Sofa Set Overall Size of 3 seater: H-762 x W-2134 x D-812 mm	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 44039.43 / each		<b>Rs 88078.86</b>
11	od19139/2019_2020 Supply, deliver and place Trademark registered branded (JALARAM make-JED 204 (A)) or approved equivalent Executive table, both side storage unit of special size. 2 drawers cum filing drawer & a center drawer, mounted on telescopic channel. Overall Size of curvica top: W-180 x D-90 cm ,Height of table 72.5 (cm) Material Specification: Two pedestals having 2 box drawers and 1 filing drawer with independent locking arrangement (cam lock) for each pedestal. Drawers shall have a clear depth of > 400 mm. One center drawer having ~ 350 mm clear depth with independent locking arrangement. The top should be made of 25 mm thick Pre&dash; laminated board(PLB) of TESA with 2 mm thick matching lipping. Under Structure: Two pedestals shall be a combination of processed wood (PLB) and Mild Steel (MS). Pedestal shell to be 0.80 mm thick MS sheet. Drawer tray to be made from 0.6 mm thick M.S sheet. Drawer separator to be made from 0.6 mm thick M.S. sheet. PLB drawer fronts (18 mm thick PLB) to match the top colour. Drawers to be mounted on double extension steel telescopic ball slides to give full access to the drawer. Sleek handles for easy grip. Glides screws for leveling.Stiffeners (1.6 mm thick) is to be provided under the top to give additional strength. Powder coating: Powder coating on all items with dry film thickness not less than 50 microns, Salt Spray test to withstand more than 1000 hours, Pencil scratch hardness more than 2H, Adhesion as per DIN 53152 Standards. The powder coating shall be of good quality (7 process) to ensure good adhesion of life of the coating. Modesty: Shall be made from 1.0 mm thick MS. Panel recessed inside for more leg room. Panel to be styled with cut&dash;outs (windows) for better physical appearance.	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 25220.81 / each		<b>Rs 151324.86</b>
12	od19140/2019_2020 Supply, deliver and place registered branded (JALARAM make JSF 115(6) E) or approved equivalent slotted angle rack (Open type) Overall size: H-78" X W-36" X D-18" Angle: 40 x 40 x 2 mm (4 nos.) Shelves: 36" x 18" (22 swg. 6 nos.) Corner plate: 8 nos. Nuts & bolts: 64 nos. Shoes: 4 nos. The raw material used will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. Finishing: All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating	
Net Total Quantity		9.000 each
Say 9.000 each @ Rs 4965.41 / each		<b>Rs 44688.69</b>



13	od19141/2019_2020 Supply, deliver and place Drafting table for drawing hall, Studio Designs 47.75"W Laminate Fusion Craft Center Drafting Table White (model no 10102) or approved equivalent brand. The Fusion Table features: an angle adjustable top (35.25" Wide x 23.75" Deep), a 24" pencil ledge, wide floor levelers for stability and is made of powder coated metal for durability. The 24" Premier Metal Art Tray (Also sold separately- Item # 12167) attaches to the side of the table top. It has a tool cup, a large 12"x 4" opening that accommodates the Flexible Foam Pencil Organizer (Also Sold Separately- Item # 12174). This Foam Organizer Tray has 96-10mm holes for pencils or markers and a cell phone slot to keep your phone clean and close during your projects. Overall Dimensions: 47.75" W x 23.75" D x 35.5" H. Top Dimensions: 35.25" W x 23.75" D with Angle adjustment from Flat to 60 Degrees. Height Adjustable from 27.75" -35.5" when Flat. Includes the Premier Metal Art Tray 24" with Swivel Cup and Slot for Flexible Foam Pencil Organizer (also sold separately). Flexible Foam Organizer Accommodates Pencils and Markers up to 10mm. Slide-Out Side Shelf provides Extra Workspace and Two Wire Mesh Storage Drawers. Slide-Up Pencil Ledge: 24" W. Steel Frame Construction for Durability with Four Wide Floor Levelers for Stability .Padded Stool Included: 21" H. Maximum weight capacity limit -Top: 50 lbs. Side Shelf: 15 lbs. Bottom Shelf: 15 lbs. Stool: 175 lbs.	
Net Total Quantity		30.000 each
Say 30.000 each @ Rs 14763.83 / each		<b>Rs 442914.90</b>
14	od19142/2019_2020 Supply and install Jasos brand JC-S 03 Model or approved equivalent auditorium seating chair comprise of seat and back frames made with CR pipes, Back cover with PPCP tray, Up holstory PU molded form of density 52-58 kg/m3, Mechanisms as legs made of CR pipes with PU cup holder arm rest, push back mechanism - box and Nylon cast metal rollers, with spring, height of chair 97cm - 100cm @52cm centre to centre, 90x8mm with chemical bonding method, All seat and back frames with enamel painting, Legs - powder coated, Mechanism- Laqor paint finished.	
Net Total Quantity		70.000 each
Say 70.000 each @ Rs 4847.99 / each		<b>Rs 339359.30</b>
<b>18 MAIN BUILDING FIRE PROTECTION SYSTEM</b>		
1	od15495/2019_2020 3 core cable, 2.5sq mm, copper. Make:- ISI approved	
Net Total Quantity		1.000 metre
Say 1.000 metre @ Rs 360.59 / metre		<b>Rs 360.59</b>
2	od15506/2019_2020 Downcomer panel with starter panel for terrace pump. Make: IS Approved	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 2803.03 / no		<b>Rs 2803.03</b>
3	od15530/2019_2020 Supplying, testing, installation & commissioning of pressure switches for Hydrant, Standby and Jockey Pumps, including necessary wiring upto control panel & other materials.  Make :- ISI Approved.  	
Net Total Quantity		1.000 each

		Say 1.000 each @ Rs 3469.67 / each	<b>Rs 3469.67</b>
4	od15551/2019_2020	Supplying, testing, installation & commissioning of pressure switches for Hydrant, and Standby, including necessary wiring up to control panel & other materials. Make :- ISI Approved. 	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 2790.82 / each	<b>Rs 2790.82</b>
5	od15555/2019_2020	Above Ground Piping :- Providing, fixing, welding joints and testing of 80 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends, including fixing the pipe with suitable flat iron strip clamps/brackets structural members dash fastener, civil breakage, making good the same etc. painting with a primer coat and two coats of postal red enamel etc. complete as required. (for wet riser system)	
		Net Total Quantity	1.500 metre
		Say 1.500 metre @ Rs 1091.50 / metre	<b>Rs 1637.25</b>
6	od15564/2019_2020	Providing and fixing 100mm dia. Cast iron Non-Return Valve. Make:- ISI Approved.  	
		Net Total Quantity	2.000 each
		Say 2.000 each @ Rs 3794.19 / each	<b>Rs 7588.38</b>
7	od15571/2019_2020	Providing & fixing pressure gauges of not less than 100mm dia dial of pressure range 0-10 kg/cmsq complete with shut off valve duly calibrated before installation. Make:- ISI Approved.	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 1011.68 / each	<b>Rs 1011.68</b>
8	od15575/2019_2020	Providing and fixing 25 mm dia. Air Releasing Valve. Make:- ISI Approved.	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 1594.15 / each	<b>Rs 1594.15</b>
9	od15577/2019_2020	Providing and fixing Fire Man axe as required with Test Certificate of 20,000 volts. Make : - ISI Approved.   	
		Net Total Quantity	3.000 each
		Say 3.000 each @ Rs 1540.15 / each	<b>Rs 4620.45</b>
10	od15581/2019_2020	FIRE DUCT :- Supply & installing in position self glowing " FIRE DUCT " sign board of size 100mm x 300 mm made of luminescent safely, rigid sheet in green colour, photo luminescent rigid sheet with two each hanging chains / or fixed on wall & necessary supports to hang it on ceiling / or on wall.	
		Net Total Quantity	3.000 each

Say 3.000 each @ Rs 541.99 / each		<b>Rs 1625.97</b>
11	od15585/2019_2020 FIRE EXIT :- Supply & installing in position self glowing " FIRE EXIT " sign board of size 100mm x 300 mm made of luminescent safely, rigid sheet in green colour, photo luminescent rigid sheet with two each hanging chains & necessary supports to hang it on ceiling.	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 541.99 / each		<b>Rs 3251.94</b>
12	od15589/2019_2020 Providing and fixing 100 mm Dia. cast iron Butterfly valve of the following size complete with S.S. 304 disc, bolts, nuts, washers and neoprene gaskets as per specifications. 	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 5836.10 / each		<b>Rs 17508.30</b>
13	od15920/2019_2020 Supply, Installation, Testing and commissioning of Over head tank (Structural Steel) with necessary Accessories (Nuts,Bolt and Support.etc) , Approved Make/Materials :- ISI Approved Materials.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 662372.00 / no		<b>Rs 662372.00</b>
14	od15921/2019_2020 Above Ground Piping :- Providing, fixing, welding joints and testing of 100 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends, including fixing the pipe with suitable flat iron strip clamps/brackets structural members dash fastener,civil breakage,making good the same etc. painting with a primer coat and two coats of postal red enamel etc. complete as required. (for wet riser system)	
Net Total Quantity		51.000 metre
Say 51.000 metre @ Rs 1318.44 / metre		<b>Rs 67240.44</b>
15	od15922/2019_2020 FIRE PUMPS (terrace pump) : - "Supplying, installing, testing & commissioning of electric driven pressurization pump (terrace pump) suitable for automatic operation and consisting of following: complete in all respect as required : "Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cm. at highest and farthest outlet at specified flow of 900 lpm. Make :- ISI kirloskar (KDS 520)/ IS Approved	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 52365.00 / no		<b>Rs 52365.00</b>

16	od15923/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of 100 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends and other fitting etc, painting with one coat of anti-corrosive paint and two coats of epoxy paint and and wrapping with polymer corrosion protection tape confirming to IS 10221 with proper overlapping, trimming etc. complete as required . (for wet riser system)	
Net Total Quantity		18.000 metre
Say 18.000 metre @ Rs 1572.55 / metre		<b>Rs 28305.90</b>
17	od16188/2019_2020 Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 4 kg capacity with initial charger and installation brackets.Make - Safex / Warrior / Intime	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 2200.99 / each		<b>Rs 13205.94</b>
18	od16189/2019_2020 Providing 63mm (2½ )" dia 15 m long canvas hose pipe complete with stainless steel male & female coupling stainless steel wire wound with the pipe The pipe shall confirm to IS. 4927. Make: ISI Approved.	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 5299.48 / each		<b>Rs 15898.44</b>
19	od16190/2019_2020 Supplying and fixing stainless steel Single headed internal hydrant valves with instantaneous stainless steel couplings of 63mm dia. With cast iron wheel ISI marked conforming to IS 5290 (Type-A) with blank stainless steel cap and chain, stainless steel orifice plate for reducing the pressure upto 3.5 kg/cm2 at outlet. Make:- ISI Approved	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 8277.68 / each		<b>Rs 24833.04</b>
20	od16191/2019_2020 FIRE HOSE REEL : - Providing and fixing first aid hose reel full swinging type with 30 m length x 20 mm dia rubber lined pipe with ABS plastic shut off nozzle of 6 mm dia. The hose reel shall conform to IS requirements. Rate shall include 25 mm dia pipe connection from riser to hose reel including flexible pipe, sockets, nipples, elbows and 25 mm ball valve. Make: Newage/SRI/Monsher" 	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 9705.36 / each		<b>Rs 29116.08</b>
21	od16192/2019_2020 M.S Hose Cabinet : - Providing & fixing M.S Hose cabinet door with powder coating of postal red color (of size minimum 1200mm wide, 2100mm height) made of M.S sheet 14 G with glass front door and locking arrangement to accommodate 2-hoses, one branch pipe and to accommodate F.A. hose reel in addition for internal hydrant complete as per direction of Engineer incharge. 	
Net Total Quantity		3.000 each

Say 3.000 each @ Rs 6147.95 / each		<b>Rs 18443.85</b>
<b>19 NEW SMART CLASSROOM ELV WORKS</b>		
1	od15492/2019_2020 Supply, installation, testing and commissioning of LAN socket.	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 260.00 / no		<b>Rs 1560.00</b>
2	od15496/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 234.00 / no		<b>Rs 1404.00</b>
3	od16275/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	
Net Total Quantity		3.000 no
Say 3.000 no @ Rs 7600.00 / no		<b>Rs 22800.00</b>
4	od16499/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.	
Net Total Quantity		180.000 metre
Say 180.000 metre @ Rs 39.00 / metre		<b>Rs 7020.00</b>
5	od16178/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP  2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 5945.00 / no		<b>Rs 35670.00</b>
6	od15526/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.	
Net Total Quantity		80.000 no
Say 80.000 no @ Rs 78.00 / no		<b>Rs 6240.00</b>
7	od15527/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 1593.00 / no		<b>Rs 9558.00</b>

8	od16185/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.	
Net Total Quantity		3.000 set
Say 3.000 set @ Rs 24590.00 / set		<b>Rs 73770.00</b>
9	od16183/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.	
Net Total Quantity		3.000 no
Say 3.000 no @ Rs 34000.00 / no		<b>Rs 102000.00</b>
<b>20 EXISTING SMART CLASSROOM ELECTRICAL &amp;&amp;&amp; ELV WORKS</b>		
1	1.14.1 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 2x1.5 sq.mm + 1x1.5 sq.mm earth wire	
Net Total Quantity		200.000 metre
Say 200.000 metre @ Rs 146.79 / metre		<b>Rs 29358.00</b>
2	od16499/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.	
Net Total Quantity		800.000 metre
Say 800.000 metre @ Rs 39.00 / metre		<b>Rs 31200.00</b>
3	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 wire	
Net Total Quantity		250.000 metre
Say 250.000 metre @ Rs 179.55 / metre		<b>Rs 44887.50</b>
4	od15497/2019_2020 Supply, Installation, Testing and commissioning Of distribution box for CCTV 6Ux600Wx600D With Front Glass Door, Side Openable Panels with Lock & Key, 4Way 5A PDU, 1U Cable Manager, Cooling Fan, H/W Kit10	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 7611.00 / no		<b>Rs 15222.00</b>
5	1.24.1 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	
Net Total Quantity		10.000 each

Say 10.000 each @ Rs 110.09 / each		<b>Rs 1100.90</b>
6	od16038/2019_2020 Supply, installation, testing and commissioning of wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key, Side Openable Panels with Lock & Key, 6Way 5A PDU, 1U Cable Manager, Cooling Fan, H/W Kit10	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 8625.00 / no		<b>Rs 17250.00</b>
7	od16178/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP  2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.	
Net Total Quantity		20.000 no
Say 20.000 no @ Rs 5945.00 / no		<b>Rs 118900.00</b>
8	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	
Net Total Quantity		10.000 each
Say 10.000 each @ Rs 149.41 / each		<b>Rs 1494.10</b>
9	od68413/2019_2020 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour monitor complete with all other accessories as required.	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 9287.00 / each		<b>Rs 18574.00</b>
10	1.24.4 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	
Net Total Quantity		20.000 each
Say 20.000 each @ Rs 106.16 / each		<b>Rs 2123.20</b>
11	1.24.5 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 6 pin 15/16 amp socket outlet	
Net Total Quantity		20.000 each
Say 20.000 each @ Rs 200.52 / each		<b>Rs 4010.40</b>
12	od15526/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.	
Net Total Quantity		240.000 no
Say 240.000 no @ Rs 78.00 / no		<b>Rs 18720.00</b>

13	1.27.2 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)	
Net Total Quantity		10.000 each
Say 10.000 each @ Rs 242.46 / each		<b>Rs 2424.60</b>
14	od15531/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 2390.00 / no		<b>Rs 14340.00</b>
15	1.27.4 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.6 Module (200mmX75mm)	
Net Total Quantity		10.000 each
Say 10.000 each @ Rs 338.13 / each		<b>Rs 3381.30</b>
16	od15537/2019_2020 Supply, Installation, Testing and commissioning of Distribution box for PA distribution made out of 16 SWG CRCA sheet with lockable door arrangement having connectors (10 NOS) suitable for 1.5sqmm wire with facility for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 979.00 / no		<b>Rs 979.00</b>
17	od16206/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC1,2,3,4:66DB;AUX 1:80 DB,THD- LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 28325.00 / no		<b>Rs 28325.00</b>
18	od15541/2019_2020 Supply, installation, testing and commissioning of LAN socket.	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 260.00 / no		<b>Rs 2600.00</b>
19	od15548/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 234.00 / no		<b>Rs 2340.00</b>



20	od16275/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 7600.00 / no		<b>Rs 76000.00</b>
21	od15560/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.	
Net Total Quantity		24.000 no
Say 24.000 no @ Rs 260.00 / no		<b>Rs 6240.00</b>
22	od16184/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10	
Net Total Quantity		20.000 no
Say 20.000 no @ Rs 1350.00 / no		<b>Rs 27000.00</b>
23	od15572/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors	
Net Total Quantity		40.000 no
Say 40.000 no @ Rs 84.00 / no		<b>Rs 3360.00</b>
24	od15574/2019_2020 SITC Of NVR 8 Channel for CCTV	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 8500.00 / no		<b>Rs 8500.00</b>
25	od16183/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.	
Net Total Quantity		10.000 no
Say 10.000 no @ Rs 34000.00 / no		<b>Rs 340000.00</b>
26	od15582/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch Panel.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 874.00 / no		<b>Rs 874.00</b>
27	od15583/2019_2020 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch Panel.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 474.00 / no		<b>Rs 474.00</b>

28	od15586/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port Network Switch to provide networks and internet on class room etc.	
Net Total Quantity		2.000 no
Say 2.000 no @ Rs 4130.00 / no		<b>Rs 8260.00</b>
29	od16221/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 14220.00 / no		<b>Rs 14220.00</b>
30	od15593/2019_2020 Supply, installation, testing and commissioning of 8 port PoE switch	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 6250.00 / no		<b>Rs 6250.00</b>
<b>21 DG SET AND PANELS - ELECTRICAL WORKS</b>		
1	od15508/2019_2020 Supply of 35 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		35.000 metre
Say 35.000 metre @ Rs 279.00 / metre		<b>Rs 9765.00</b>
2	9.1.21 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.3 1/2X 35 sq. mm (32mm)	
Net Total Quantity		4.000 set
Say 4.000 set @ Rs 369.59 / set		<b>Rs 1478.36</b>
3	9.1.24 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.3 1/2X 95 sq. mm (45mm)	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 631.71 / set		<b>Rs 1263.42</b>
4	9.1.25 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.3 1/2 X 120 sq. mm (45mm)	
Net Total Quantity		2.000 set
Say 2.000 set @ Rs 655.30 / set		<b>Rs 1310.60</b>

5	od15545/2019_2020 Supply of 50 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 360.00 / metre		<b>Rs 5400.00</b>
6	od15549/2019_2020 Supply of 95 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	
Net Total Quantity		70.000 metre
Say 70.000 metre @ Rs 604.00 / metre		<b>Rs 42280.00</b>
7	5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	
Net Total Quantity		6.000 set
Say 6.000 set @ Rs 10863.56 / set		<b>Rs 65181.36</b>
8	5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earthelectrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.(Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	
Net Total Quantity		180.000 metre
Say 180.000 metre @ Rs 111.40 / metre		<b>Rs 20052.00</b>
9	5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 169.07 / metre		<b>Rs 5072.10</b>
10	od68587/2019_2020 SITC of 100 KVA DG set with standard control panel complete with all other accessories as required.	
Net Total Quantity		1.000 each set
Say 1.000 each set @ Rs 740865.00 / each set		<b>Rs 740865.00</b>
11	od68588/2019_2020 SITC of 11kV HT metering cubicle, weather proof for outdoor purpose with HT TOD meter, 11KV/110V 100VA PT , 10/5A, CT 15VA , Fuse unit, control wiring complete with all other accessories as required.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 163172.00 / each		<b>Rs 163172.00</b>

12	od68590/2019_2020 SITC of MDB 1 (Koyilandy) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, ( bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 160A TPN Isolator – 1 No. Outgoing: - 100A 3P MCCB – 3 No., 63A 3P MCCB – 2 No., 32A 3P MCCB – 2 No.		
		Net Total Quantity	1.000 no
		Say 1.000 no @ Rs 133062.05 / no	<b>Rs 133062.05</b>
13	od68591/2019_2020 SITC of MSB (Koyilandy) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, ( bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, surge protection device, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 200A FP MCCB, Microprocessor Control -1No, 160A FP Isolator – 1 No. AMF relay, CT, RYB indicator, MFDM, etc. Busbar - 200A, Aluminium TP&N busbar Outgoing: - 100A 3P MCCB – 7 No., 100A, 4P Isolator		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 261505.80 / each	<b>Rs 261505.80</b>

14	od68881/2019_2020 SITC of 35KVAR APFC Panel - Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, ( bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc comprising with the followings as per the KEI standard. Incomer: 125A, TPN Isolator Outgoing: 40A, TP MCB - 1 no., 16A, 3P MCB - 4 no. 15KVAR capacitor - 1 no., 5KVAR capacitor - 3 no. Directly connected capacitor 5 KVAR - 1 no with required capacitor duty contactors and 8 stage relay IPFC.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 97081.90 / each		<b>Rs 97081.90</b>
15	7.1.2 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 35 sq. mm and upto 95 sq. mm	
Net Total Quantity		55.000 metre
Say 55.000 metre @ Rs 280.47 / metre		<b>Rs 15425.85</b>
16	7.1.3 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 95 sq. mm and upto 185 sq. mm	
Net Total Quantity		55.000 metre
Say 55.000 metre @ Rs 292.26 / metre		<b>Rs 16074.30</b>
17	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	
Net Total Quantity		45.000 metre
Say 45.000 metre @ Rs 32.77 / metre		<b>Rs 1474.65</b>
18	7.7.2 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 94.36 / metre		<b>Rs 2830.80</b>

19	7.7.3 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	
Net Total Quantity		15.000 metre
Say 15.000 metre @ Rs 110.09 / metre		<b>Rs 1651.35</b>
<b>22 SIGNAGE AND BOARDS</b>		
1	od16311/2019_2020 Providing and fixing of Advance Direction / Way finding / Reassurance Sign board of size 1000 mm x 1500 mm made out of Type-XI encapsulated lens type retro reflective sheeting wide. Base Sheeting shall be of White Color Type XI Retro Reflective Sheeting fixed over 2 mm thick Aluminium Composite Material sheet with area exceeding 0.9 sqm fixed over back support frame of M.S. Angle 35 x 35 x 5 mm all round mounted on two 50 mm dia MS Pipe with clear height of not less than 2.1 m from the ground level to the bottom of the board as per approved drawings. The sign post should be painted with one coat of red oxide paint and two coats of 1 st quality synthetic enamel paint Black & white colour with bands of 30 cm height. The sign post shall be firmly fixed in to the ground by means of properly designed foundation with M15 grade concrete size 450mm x 450mm x 600 mm, including cost, conveyance of all materials, equipment, machinery and labour with all leads and lift, loading charges necessary for satisfactory completion of the work as directed by Engineer in-Charge.	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 18119.40 / each		<b>Rs 36238.80</b>
2	od16312/2019_2020 Supply and fixing sticker type signage at site (on door or similar locations) in proper line & level. The signage letters shall be made with premium quality vinyl sheet of approved colour, pasted on "3M" make self-adhesive film of approved colour, including supply of all material labour etc. required for proper completion of work. Before making the signage text & font of letters in best fit size will be set in computer so as to give aesthetic look as per sample available with ITD	
Net Total Quantity		8512.000 sqcm
Say 8512.000 sqcm @ Rs 0.36 / sqcm		<b>Rs 3064.32</b>
3	od16314/2019_2020 Supply and fixing bilingual signage in English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 3mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.	
Net Total Quantity		16110.080 sqcm
Say 16110.080 sqcm @ Rs 0.74 / sqcm		<b>Rs 11921.46</b>
4	od16315/2019_2020 Supply & fixing 5 mm thick aluminum compressed Panel (ACP) sheet in the required size for building name signage. The sheet will be cut into size as per the size of signage to be fixed in position (Stone façade, grit wash, gypsum board etc.) with screws & tape including s/o all material labour T&P etc. required for proper completion of work.	

		Net Total Quantity	18000.000 sqcm
		Say 18000.000 sqcm @ Rs 0.43 / sqcm	<b>Rs 7740.00</b>
5	od19356/2019_2020 Supply & fixing stainless steel (SS) letters made with SS-304 grade 20 gauge sheet as per the approved size & shade including fixing on ACP sheet in required height line & level including s/o all T&P etc. required for proper completion of work. Before making the letters the font & size will be got approved from ITD.		
		Net Total Quantity	525.000 cm
		Say 525.000 cm @ Rs 36.01 / cm	<b>Rs 18905.25</b>
6	od16316/2019_2020 Supply and fixing symbol signage such as No. Smoking, No Spitting, Drinking Water etc. signage of standard sizes as per conventional design/ colour code on 3 mm thick aluminium composite panel. The signage will be either fixed on the wall with the help of screws & double tape or hanged from the false ceiling with the help of chain & screws etc. complete work.		
		Net Total Quantity	4256.000 sqcm
		Say 4256.000 sqcm @ Rs 0.85 / sqcm	<b>Rs 3617.60</b>
7	od16317/2019_2020 Printing of floor plans on approx. A2 size poster sheet with indelible ink framing the same in 3mm thick acrylic sheet and 1" studs complete. The floor plans will be fixed on the wall with the help of screws and double tape etc. to give neat & finished look		
		Net Total Quantity	2.496 sqm
		Say 2.496 sqm @ Rs 1393.80 / sqm	<b>Rs 3478.92</b>
<b>23 DEMOLITION OF DILAPIDATED WORKSHOP</b>			
1	15.2.2 Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge. Nominal concrete 1:4:8 leaner mix ( including equivalent design mix)		
		Net Total Quantity	34.200 cum
		Say 34.200 cum @ Rs 806.22 / cum	<b>Rs 27572.72</b>
2	15.3 Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.		
		Net Total Quantity	18.000 cum
		Say 18.000 cum @ Rs 1906.33 / cum	<b>Rs 34313.94</b>
3	15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge. In cement mortar		

		Net Total Quantity	65.881 cum
		Say 65.881 cum @ Rs 1104.44 / cum	<b>Rs 72761.61</b>
4	15.9.2 Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charges:In cement mortar		
		Net Total Quantity	54.000 cum
		Say 54.000 cum @ Rs 1318.07 / cum	<b>Rs 71175.78</b>
5	15.12.1 Dismantling doors, windows and clerestory windows (steel or wood ) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:Of area 3 sq. metres and below		
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 206.88 / each	<b>Rs 2068.80</b>
6	15.12.2 Of area beyond 3 sq. metres		
		Net Total Quantity	4.000 each
		Say 4.000 each @ Rs 283.61 / each	<b>Rs 1134.44</b>
7	15.18 Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates,boltd, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.		
		Net Total Quantity	965.000 kg
		Say 965.000 kg @ Rs 3.15 / kg	<b>Rs 3039.75</b>
8	15.28.1 Dismantling roofing including ridges, hips, velleys and gutters etc., and stacking the material within 50 metres lead of :G.S. Sheet		
		Net Total Quantity	192.200 sqm
		Say 192.200 sqm @ Rs 91.87 / sqm	<b>Rs 17657.41</b>
9	15.60 Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved		
		Net Total Quantity	173.000 cum
		Say 173.000 cum @ Rs 157.99 / cum	<b>Rs 27332.27</b>
<b>24 CONTINGENCIES</b>			
		Lump-Sum Total	<b>Rs 363802.00</b>
		Provision for GST payments (in %) @	<b>12.0%</b>
		Amount reserved for GST payments	<b>4457029.58</b>



Total	<b>41598942.58</b>
Lumpsum for round off	<b>57.42</b>
<b>TOTAL Rs 41599000.00</b>	
<b>Rounded Total Rs 4,15,99,000</b>	
Rupees Four Crore Fifteen Lakh Ninety Nine Thousand Only	

(Cost Index Applied for this estimate is 31.06%)



Other Engineering Organisations

**PRICE**