

TS Register No: 1277/2019-2020

AS Register No:665/2019-2020

UP-GRADATION OF GOVT ITI MALAMPUZHA ON PAR WITH INTERNATIONAL STANDARDS- MAIN BUILDING,SUMP TANK AND FRONT GATE-PHASE 1- REV-2

Abstract Estimate

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

1 MAIN BUILDING CIVIL WORKS		
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		3689.362 cum
Say 3689.362 cum @ Rs 165.07 / cum		Rs 609002.99
2	2.26.1 Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials.All kinds of soil	
Net Total Quantity		1904.186 cum
Say 1904.186 cum @ Rs 67.82 / cum		Rs 129141.89
3	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		3679.589 cum
Say 3679.589 cum @ Rs 164.81 / cum		Rs 606433.06
4	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		219.470 cum
Say 219.470 cum @ Rs 5869.06 / cum		Rs 1288082.60
5	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	
Net Total Quantity		169.932 cum
Say 169.932 cum @ Rs 7184.64 / cum		Rs 1220900.24

6	4.3.1 Centering and shuttering including strutting, propping etc. and removal of form work for:Foundations, footings, bases for columns		
		Net Total Quantity	331.688 sqm
		Say 331.688 sqm @ Rs 254.19 / sqm	Rs 84311.77
7	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	844.302 cum
		Say 844.302 cum @ Rs 8448.78 / cum	Rs 7133321.85
8	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	1247.199 cum
		Say 1247.199 cum @ Rs 9501.92 / cum	Rs 11850785.12
9	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	299.033 sqm
		Say 299.033 sqm @ Rs 254.19 / sqm	Rs 76011.20
10	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts		
		Net Total Quantity	2198.495 sqm
		Say 2198.495 sqm @ Rs 613.16 / sqm	Rs 1348029.19
11	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	4359.894 sqm
		Say 4359.894 sqm @ Rs 449.40 / sqm	Rs 1959336.36
12	5.9.7	Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases)	
		Net Total Quantity	302.166 sqm
		Say 302.166 sqm @ Rs 549.60 / sqm	Rs 166070.43
13	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	3774.405 sqm
		Say 3774.405 sqm @ Rs 553.47 / sqm	Rs 2089019.94
14	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	1387.938 sqm
		Say 1387.938 sqm @ Rs 496.19 / sqm	Rs 688680.96
15	5.9.13	Centering and shuttering including strutting, etc. and removal of form for:Vertical and horizontal fins individually for forming box louvers band, facias and eaves boards	
		Net Total Quantity	70.875 sqm
		Say 70.875 sqm @ Rs 822.86 / sqm	Rs 58320.20
16	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	77036.311 kilogram
		Say 77036.311 kilogram @ Rs 74.18 / kilogram	Rs 5714553.55
17	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	155167.442 kg
		Say 155167.442 kg @ Rs 74.18 / kg	Rs 11510320.85
18	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	2091.501 cum

		Say 2091.501 cum @ Rs 91.09 / cum	Rs 190514.83
19	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 Vlevel 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. (Thepayment of RCC band and reinforcement shall be made for seperately).	
		Net Total Quantity	560.397 cum
		Say 560.397 cum @ Rs 7453.45 / cum	Rs 4176891.02
20	13.4.2	12 mm cement plaster of mix:1:6 (1 cement : 6 coarse sand)	
		Net Total Quantity	9009.748 sqm
		Say 9009.748 sqm @ Rs 220.51 / sqm	Rs 1986739.53
21	13.4.1	12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)	
		Net Total Quantity	2411.172 sqm
		Say 2411.172 sqm @ Rs 237.02 / sqm	Rs 571495.99
22	13.16.1	6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)	
		Net Total Quantity	3518.560 sqm
		Say 3518.560 sqm @ Rs 188.46 / sqm	Rs 663107.82
23	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	98.440 sqm
		Say 98.440 sqm @ Rs 390.95 / sqm	Rs 38485.12

24	od170798/2019_2020 Mat polished finish on concrete surface by flooring the process "DENSIFIED FLOOR" Vid. as Grinding the concrete floor using Coarse, Medium diamond grinding tools for removing the latency and minor level difference and opening up the pores in concrete, Densification of the floor using hybrid densifier, Densifier reacts with the un-hydrated lime present in concrete and makes the concrete surface dense and hard.It offers many benefitssuch as reduced dusting, higher gloss readings, increased abrasion resistance, and a longer lifespan of the concrete floor. For this to achieve, the concrete floor is allowed to be saturated with densifier, sealing with external grade sealer is applied on the floor after polishing to protect the floor from the effects of weather and to make the floor water repellent and stain resistant, burnishing the floor using a floor burnisher to bring about more shine and remove excess sealer from the floor etc as per technical guidance from with HTC Sweden and Convergent Concrete Technologies, USA. This item shall be executed only by the agency which has all required manufacturing machineries and necessary expertise.	
Net Total Quantity		485.000 sqm
Say 485.000 sqm @ Rs 599.89 / sqm		Rs 290946.65
25	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		3363.310 sqm
Say 3363.310 sqm @ Rs 1467.09 / sqm		Rs 4934278.47
26	11.36 Providing and fixing I 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		540.963 sqm
Say 540.963 sqm @ Rs 976.13 / sqm		Rs 528050.21
27	11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of Ist 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		254.680 sqm
Say 254.680 sqm @ Rs 980.20 / sqm		Rs 249637.34

28	od18705/2019_2020 Supply and install externally 1st quality 60x30x1.2cm ceramic tile walls cladding of different colours, 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		224.641 sqm
Say 224.641 sqm @ Rs 1444.56 / sqm		Rs 324507.40
29	od18706/2019_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		29.160 sqm
Say 29.160 sqm @ Rs 1394.71 / sqm		Rs 40669.74
30	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		12439.480 sqm
Say 12439.480 sqm @ Rs 48.43 / sqm		Rs 602444.02
31	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		12439.480 sqm
Say 12439.480 sqm @ Rs 96.85 / sqm		Rs 1204763.64
32	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		2305.822 sqm
Say 2305.822 sqm @ Rs 125.88 / sqm		Rs 290256.87
33	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		295.650 sqm
Say 295.650 sqm @ Rs 38.14 / sqm		Rs 11276.09
34	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	295.650 sqm
		Say 295.650 sqm @ Rs 98.36 / sqm	Rs 29080.13
35	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	2935.050 kg
		Say 2935.050 kg @ Rs 147.38 / kg	Rs 432567.67
36	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 of appropriate 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 of appropriate dimension. (Area of window above 1.50 sqm).	
		Net Total Quantity	147.000 sqm
		Say 147.000 sqm @ Rs 10973.92 / sqm	Rs 1613166.24
37	9.147B.1	543SUB HEAD : 9 - WOOD & PVC WORK9.147BProviding and fixing factory made uPVC white colour fixed glazed windows/ventilators comprising of uPVC multi-chambered frame and mullion (where everrequired) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanizedmild steel section made from roll forming process of required length (shape &size according to uPVC profile), , uPVC extruded glazing beads of appropriatedimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finishedwall, plastic packers, plastic caps and necessary stainless steel screws etc.Profile of frame shall be mitred cut and fusion welded at all corners, mullion (ifrequired) shall be also fusion welded including drilling of holes for fixinghardware's and drainage of water etc. After fixing frame the gap between frameand adjacent finished wall shall be filled with weather proof silicon sealant overbacker rod of required size and of approved quality, all complete as per approveddrawing & direction of Engineer-in-Charge. (Single / double glass panes andsilicon 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.Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	

Net Total Quantity		9.300 sqm
Say 9.300 sqm @ Rs 7076.85 / sqm		Rs 65814.71
38	<p>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</p>	
Net Total Quantity		156.300 sqm
Say 156.300 sqm @ Rs 1315.78 / sqm		Rs 205656.41
39	<p>od170778/2019_2020 Supply and fixing ready made galvanized wooden texture Powder coating/Heat transfer/Fluorocarbon laminate painted steel doors with steel jamb,SS hinges & door sill ,sheet thickness of 1to 1.4mm, Cylindrical lock, high security locking systems (Multi lock models having 11 locking points, and can be operated with a single key), honeycomb paper Infilling material, five years warranty on all the hardware and locking system as per satisfaction of site Engineer in charge.The above rate included all fixing and fittings like security locks, hinges, hardware items etc.(Cuirass/l-leaf/GM or approved equivalent.)</p>	
Net Total Quantity		72.000 sqm of door area
Say 72.000 sqm of door area @ Rs 10882.21 / sqm of door area		Rs 783519.12
40	<p>od18702/2019_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)</p>	
Net Total Quantity		85.681 sqm of door area
Say 85.681 sqm of door area @ Rs 8461.72 / sqm of door area		Rs 725008.63
41	<p>od18716/2019_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)</p>	
Net Total Quantity		46.200 sqm
Say 46.200 sqm @ Rs 8471.98 / sqm		Rs 391405.48

42	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		778.000 kg
Say 778.000 kg @ Rs 619.13 / kg		Rs 481683.14
43	10.6.2 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	
Net Total Quantity		49.200 sqm
Say 49.200 sqm @ Rs 2413.34 / sqm		Rs 118736.33
44	10.7 Providing and fixing ball bearing for rolling shutters.	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 497.11 / no		Rs 2982.66
45	od18717/2019_2020 Supply 100x100x4mm thick 6.00 m long Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC parapet and base up stand, will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution).	
Net Total Quantity		540.000 metre
Say 540.000 metre @ Rs 1006.28 / metre		Rs 543391.20
46	od170504/2019_2020 Supply Cor-Ten A grade 3mm thick warm rolled perforated cassettes (ASTM A606) 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		169.044 sqm
Say 169.044 sqm @ Rs 2594.59 / sqm		Rs 438599.87

47	<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 & 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		291.441 sqm
Say 291.441 sqm @ Rs 1256.41 / sqm		Rs 366169.39
48	<p>12.59.1</p> <p>Providing and fixing false ceiling at all height including providing & fixing of framework made of special section, 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 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 chanel 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 flages 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 day 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 acutoclaving process.</p>	

		Net Total Quantity	83.460 sqm
		Say 83.460 sqm @ Rs 1201.49 / sqm	Rs 100276.36
49	od18719/2019_2020 Providing and Fixing in position Ply Decking in class room of approved design, shape with vertical & horizontal necessary frame work of hard wood members of approved quality, well notched & screwed, 12mm thick approved marine ply decking finished to receive marble / wood, necessary frame work, wooden packings, including necessary hardware, making holes in MS sections, etc. complete as per detail drawing and as directed by Engineer in charge. Raised floor @ 300mm ht. from FFL		
		Net Total Quantity	114.801 sqm
		Say 114.801 sqm @ Rs 2877.15 / sqm	Rs 330299.70
50	od170800/2019_2020 Supply and fixing White Board: 4'x6' magnetic White		
		Net Total Quantity	13.000 each
		Say 13.000 each @ Rs 4982.99 / each	Rs 64778.87
51	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	45.000 each
		Say 45.000 each @ Rs 4480.55 / each	Rs 201624.75
52	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	10.000 each
		Say 10.000 each @ Rs 4579.43 / each	Rs 45794.30
53	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	38.000 each
		Say 38.000 each @ Rs 3012.48 / each	Rs 114474.24

54	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	38.000 each
		Say 38.000 each @ Rs 1278.16 / each	Rs 48570.08
55	17.70.1 Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms		
		Net Total Quantity	38.000 each
		Say 38.000 each @ Rs 385.25 / each	Rs 14639.50
56	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	45.000 each
		Say 45.000 each @ Rs 727.78 / each	Rs 32750.10
57	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	45.000 no
		Say 45.000 no @ Rs 1280.27 / no	Rs 57612.15
58	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	26.000 each
		Say 26.000 each @ Rs 180.67 / each	Rs 4697.42
59	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	45.000 no
		Say 45.000 no @ Rs 127.25 / no	Rs 5726.25
60	od18724/2019_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	56.000 each
		Say 56.000 each @ Rs 653.79 / each	Rs 36612.24

61	od18726/2019_2020 Providing and fixing 100mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.	
Net Total Quantity		15.000 each
Say 15.000 each @ Rs 1628.31 / each		Rs 24424.65
62	od18727/2019_2020 Providing and fixing 75mm dia Cleanout with Spigot, with SS 304 Square Frame & Round Frame with Flat Round Cover with Rubber Seal & SS Screw including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 1483.12 / each		Rs 7415.60
63	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		83.000 each
Say 83.000 each @ Rs 623.45 / each		Rs 51746.35
64	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 Kg/cm ² - Internal work - Exposed on wall	
Net Total Quantity		140.000 metre
Say 140.000 metre @ Rs 169.07 / metre		Rs 23669.80
65	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 10Kg/ cm ² - Internal work- Exposed on wall	
Net Total Quantity		120.000 metre
Say 120.000 metre @ Rs 193.12 / metre		Rs 23174.40
66	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 10Kg/cm ² - Internal work - Exposed on wall	
Net Total Quantity		65.000 metre
Say 65.000 metre @ Rs 234.11 / metre		Rs 15217.15
67	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 Kg/cm ² - Internal work- exposed on wall	

		Net Total Quantity	25.000 metre
		Say 25.000 metre @ Rs 300.80 / metre	Rs 7520.00
68	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	85.000 metre
		Say 85.000 metre @ Rs 308.80 / metre	Rs 26248.00
69	od18728/2019_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/cm2 - External work - Exposed on wall		
		Net Total Quantity	240.000 metre
		Say 240.000 metre @ Rs 289.38 / metre	Rs 69451.20
70	od18729/2019_2020 Providing and fixing PVC pipes including fixing the pipe with clamps/clips at 1.00 m spacing. This included jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 75 mm dia 10Kgf/cm2 - External work- Exposed on wall		
		Net Total Quantity	30.000 metre
		Say 30.000 metre @ Rs 375.45 / metre	Rs 11263.50
71	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 Kgf/ cm2		
		Net Total Quantity	210.000 metre
		Say 210.000 metre @ Rs 274.73 / metre	Rs 57693.30
72	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	2.000 each
		Say 2.000 each @ Rs 561.20 / each	Rs 1122.40
73	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	3.000 each
		Say 3.000 each @ Rs 766.31 / each	Rs 2298.93

74	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	3.000 each
		Say 3.000 each @ Rs 982.82 / each	Rs 2948.46
75	od18730/2019_2020 Supply, fixing, testing , commissioning 65mm dia Butterfly valve (Manual) with CI body SS disk, Nitrile rubber seal and O-ring P16 pressure rating for water circulation as specified.		
		Net Total Quantity	2.000 each
		Say 2.000 each @ Rs 3896.44 / each	Rs 7792.88
76	od18731/2019_2020 Supply, fixing, testing , commissioning 80mm dia Butterfly valve (Manual) with CI body SS disk, Nitrile rubber seal and O-ring P16 pressure rating for water circulation as specified.		
		Net Total Quantity	2.000 each
		Say 2.000 each @ Rs 4377.30 / each	Rs 8754.60
77	50.18.9.2.2 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 20 mm dia 10 Kgf/cm2		
		Net Total Quantity	10.000 metre
		Say 10.000 metre @ Rs 128.91 / metre	Rs 1289.10
78	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	Rs 1609.50
79	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	15.000 metre
		Say 15.000 metre @ Rs 183.65 / metre	Rs 2754.75
80	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	80.000 metre
		Say 80.000 metre @ Rs 216.52 / metre	Rs 17321.60

81	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		50.000 metre
Say 50.000 metre @ Rs 224.52 / metre		Rs 11226.00
82	od18732/2019_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		20.000 metre
Say 20.000 metre @ Rs 295.88 / metre		Rs 5917.60
83	od18733/2019_2020 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching and refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia 10Kgf/cm2	
Net Total Quantity		10.000 metre
Say 10.000 metre @ Rs 365.41 / metre		Rs 3654.10
84	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		2.000 each
Say 2.000 each @ Rs 656.28 / each		Rs 1312.56
85	50.18.7.6.2 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 50 mm dia 6 Kgf/cm2 - Internal work- Exposed on wall	
Net Total Quantity		35.000 metre
Say 35.000 metre @ Rs 268.75 / metre		Rs 9406.25
86	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/cm2	
Net Total Quantity		30.000 metre
Say 30.000 metre @ Rs 320.03 / metre		Rs 9600.90
87	50.18.8.7.1 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. 63 mm pipe 6 Kgf/cm2	

		Net Total Quantity	85.000 metre
		Say 85.000 metre @ Rs 460.92 / metre	Rs 39178.20
88	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/cm2		
		Net Total Quantity	30.000 metre
		Say 30.000 metre @ Rs 474.32 / metre	Rs 14229.60
89	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/cm2		
		Net Total Quantity	65.000 metre
		Say 65.000 metre @ Rs 574.32 / metre	Rs 37330.80
90	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	30.000 metre
		Say 30.000 metre @ Rs 805.57 / metre	Rs 24167.10
91	50.18.9.19.1 Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ 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 110 mm dia 6 Kgf/cm2 - External work- Exposed on wall		
		Net Total Quantity	210.000 metre
		Say 210.000 metre @ Rs 340.64 / metre	Rs 71534.40
92	od18734/2019_2020 Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per the direction of Engineer-in-Charge 160 mm dia 6 Kgf/cm2 - External work- Exposed on wall		
		Net Total Quantity	140.000 metre
		Say 140.000 metre @ Rs 745.12 / metre	Rs 104316.80
93	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	14.000 each

Say 14.000 each @ Rs 2259.02 / each		Rs 31626.28
2 MAIN BUILDING - ELECTRICAL WORKS		
1	od18615/2019_2020 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. 1R X 3.5C X 70 Sq.mm AYFY	
Net Total Quantity		20.000 metre
Say 20.000 metre @ Rs 532.36 / metre		Rs 10647.20
2	od18640/2019_2020 Supplying and drawing of 1R x 4C x 10 Sq.mm AYFY cable through 40mm medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.	
Net Total Quantity		370.000 metre
Say 370.000 metre @ Rs 274.41 / metre		Rs 101531.70
3	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		2.000 set
Say 2.000 set @ Rs 369.59 / set		Rs 739.18
4	od70745/2019_2020 SITC of SSB 2 (Main Building 1, Workshop, Malampuzha) 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 with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), 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: - 63A 3P MCCB – 5 No.,32A 3P MCCB – 2 No.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 136399.54 / each		Rs 136399.54

5	<p>od70746/2019_2020 SITC of SSB 1 (Main Building , L&P, Malampuzha)
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 with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), 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: - 40A TP MCB – 1 Nos, 32A TP MCB - 2 Nos, 50A TP MCB - 2 No, 63A TPN Isolator - 1 No.</p>	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 72548.61 / each		Rs 72548.61
6	<p>od70747/2019_2020 SITC of MDB 1 (Main Building-1, Malampuzha)
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 with14swg and 16swg of CRCA M.S. sheet,
powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), 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: - 250A TPN Isolator – 1 No. Outgoing: - 125A 3P MCCB – 1 No., 100A 3P MCCB – 3 No., 63A 3P MCCB – 2 No., 40A SP MCCB – 1 No.</p>	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 149404.52 / each		Rs 149404.52

7	od70760/2019_2020 SITC of SSB 5 (Malampuzha) 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 with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), 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: - 250A TPN Isolator – 1 No. Outgoing: - 63A 3P MCB – 3 No.,32A 3P MCB – 1 No. 63A, 3P MCCB - 4 Nos, 160A, 3P MCCB - 1 no.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 119358.60 / each		Rs 119358.60
8	od70750/2019_2020 SITC of SSB 4 (Main Building 1, UPS, Malampuzha) 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 with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), 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: - 100A TPN Isolator – 1 No. Outgoing: - 20A 3P MCB – 7 No., 32A 3P MCB – 1 No.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 89601.04 / each		Rs 89601.04
9	9.1.22 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2 X 50 sq. mm (35mm)	
Net Total Quantity		4.000 set
Say 4.000 set @ Rs 463.95 / set		Rs 1855.80
10	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	20.000 set
		Say 20.000 set @ Rs 266.05 / set	Rs 5321.00
11	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	16.000 set
		Say 16.000 set @ Rs 338.13 / set	Rs 5410.08
12	9.1.23 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 70 sq. mm (38mm)		
		Net Total Quantity	2.000 set
		Say 2.000 set @ Rs 516.38 / set	Rs 1032.76
13	9.1.26 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 150 sq. mm (50mm)		
		Net Total Quantity	2.000 set
		Say 2.000 set @ Rs 775.88 / set	Rs 1551.76
14	od18680/2019_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	80.000 metre
		Say 80.000 metre @ Rs 306.00 / metre	Rs 24480.00
15	od18684/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable		
		Net Total Quantity	270.000 metre
		Say 270.000 metre @ Rs 759.00 / metre	Rs 204930.00
16	od18691/2019_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	20.000 metre
		Say 20.000 metre @ Rs 237.00 / metre	Rs 4740.00
17	od18693/2019_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	500.000 metre
		Say 500.000 metre @ Rs 202.00 / metre	Rs 101000.00
18	od18698/2019_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	180.000 metre
		Say 180.000 metre @ Rs 153.00 / metre	Rs 27540.00
19	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	Rs 2005.20
20	4.1.3 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.225 mm width X 50 mm depth X 1.6 mm thickness		
		Net Total Quantity	200.000 metre
		Say 200.000 metre @ Rs 602.88 / metre	Rs 120576.00
21	4.1.4 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.300 mm width X 50 mm depth X 1.6 mm thickness		
		Net Total Quantity	200.000 metre
		Say 200.000 metre @ Rs 689.38 / metre	Rs 137876.00
22	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	210.000 metre
		Say 210.000 metre @ Rs 292.26 / metre	Rs 61374.60
23	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	250.000 metre
		Say 250.000 metre @ Rs 32.77 / metre	Rs 8192.50

24	7.7.2 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.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		Rs 2830.80
25	7.7.3 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.Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	
Net Total Quantity		210.000 metre
Say 210.000 metre @ Rs 110.09 / metre		Rs 23118.90
26	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		800.000 metre
Say 800.000 metre @ Rs 27.52 / metre		Rs 22016.00
27	7.8.2 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.Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	
Net Total Quantity		70.000 metre
Say 70.000 metre @ Rs 64.22 / metre		Rs 4495.40
28	7.8.3 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.Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	
Net Total Quantity		33.000 metre
Say 33.000 metre @ Rs 79.95 / metre		Rs 2638.35
29	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		18.000 metre
Say 18.000 metre @ Rs 530.79 / metre		Rs 9554.22
30	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	3.000 set
		Say 3.000 set @ Rs 10863.56 / set	Rs 32590.68
31	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	120.000 metre
		Say 120.000 metre @ Rs 111.40 / metre	Rs 13368.00
32	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	40.000 metre
		Say 40.000 metre @ Rs 169.07 / metre	Rs 6762.80
33	90.11.1.12	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 required8 way (8+24) - three phase double cover (IP 42/43)	
		Net Total Quantity	8.000 each
		Say 8.000 each @ Rs 4728.17 / each	Rs 37825.36
34	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	2.000 each
		Say 2.000 each @ Rs 4415.17 / each	Rs 8830.34
35	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	2.000 each
		Say 2.000 each @ Rs 6466.17 / each	Rs 12932.34

36	90.11.1.15 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 6 way (8+18) - 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 7153.17 / each		Rs 7153.17
37	90.11.1.16 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 8 way (8+18) - 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		7.000 each
Say 7.000 each @ Rs 7844.17 / each		Rs 54909.19
38	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		Rs 2759.17
39	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		10.000 each
Say 10.000 each @ Rs 888.59 / each		Rs 8885.90
40	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		41.000 each
Say 41.000 each @ Rs 917.42 / each		Rs 37614.22
41	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	11.000 each
		Say 11.000 each @ Rs 874.17 / each	Rs 9615.87
42	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 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.25 amps	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 2747.02 / each	Rs 2747.02
43	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 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 2792.89 / each	Rs 27928.90
44	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 milliampers in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps	
		Net Total Quantity	10.000 each
		Say 10.000 each @ Rs 3017.00 / each	Rs 30170.00
45	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	162.000 each
		Say 162.000 each @ Rs 226.73 / each	Rs 36730.26
46	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth,metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	
		Net Total Quantity	12.000 each
		Say 12.000 each @ Rs 1284.39 / each	Rs 15412.68
47	2.19	Supplying and fixing 20 amps 415volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top along with 20 amps "C" curve, TPMCB, in sheet enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	
		Net Total Quantity	12.000 each

Say 12.000 each @ Rs 1906.92 / each		Rs 22883.04
48	2.20 Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 3260.77 / each		Rs 19564.62
49	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		2860.000 metre
Say 2860.000 metre @ Rs 146.79 / metre		Rs 419819.40
50	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		1260.000 metre
Say 1260.000 metre @ Rs 179.55 / metre		Rs 226233.00
51	1.14.3 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	
Net Total Quantity		280.000 metre
Say 280.000 metre @ Rs 220.18 / metre		Rs 61650.40
52	1.14.8 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 4 X 4 sq. mm + 2 X 4 sq. mm earth wire	
Net Total Quantity		280.000 metre
Say 280.000 metre @ Rs 368.28 / metre		Rs 103118.40
53	1.14.9 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 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	
Net Total Quantity		160.000 metre
Say 160.000 metre @ Rs 517.69 / metre		Rs 82830.40

54	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	215.000 each
		Say 215.000 each @ Rs 110.09 / each	Rs 23669.35
55	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	54.000 each
		Say 54.000 each @ Rs 149.41 / each	Rs 8068.14
56	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	215.000 each
		Say 215.000 each @ Rs 106.16 / each	Rs 22824.40
57	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	54.000 each
		Say 54.000 each @ Rs 200.52 / each	Rs 10828.08
58	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	36.000 each
		Say 36.000 each @ Rs 428.90 / each	Rs 15440.40
59	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	Rs 127.13
60	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	1.000 each
		Say 1.000 each @ Rs 149.41 / each	Rs 149.41
61	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	140.000 each
		Say 140.000 each @ Rs 377.45 / each	Rs 52843.00
62	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	2.000 each
		Say 2.000 each @ Rs 229.36 / each	Rs 458.72
63	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	65.000 each
		Say 65.000 each @ Rs 242.46 / each	Rs 15759.90
64	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	102.000 each
		Say 102.000 each @ Rs 338.13 / each	Rs 34489.26
65	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 79.95 / each	Rs 79.95
66	od70142/2019_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	53.000 each
		Say 53.000 each @ Rs 333.76 / each	Rs 17689.28

67	od70143/2019_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		16.000 no
Say 16.000 no @ Rs 629.47 / no		Rs 10071.52
68	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required. Group C	
Net Total Quantity		443.000 point
Say 443.000 point @ Rs 992.12 / point		Rs 439509.16
69	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		13.000 point
Say 13.000 point @ Rs 1060.28 / point		Rs 13783.64
70	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		20.000 point
Say 20.000 point @ Rs 543.90 / point		Rs 10878.00
71	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, shackles and blades and resistance type regulator working on 230V/240V single phase A/C	
Net Total Quantity		117.000 each
Say 117.000 each @ Rs 1857.50 / each		Rs 217327.50
72	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	152.000 each
		Say 152.000 each @ Rs 1174.12 / each	Rs 178466.24
73	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	134.000 each
		Say 134.000 each @ Rs 1430.16 / each	Rs 191641.44
74	90.3.24.4 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 2X20W LED Lamp with box type fixture		
		Net Total Quantity	40.000 each
		Say 40.000 each @ Rs 2001.16 / each	Rs 80046.40
75	od18721/2019_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	8.000 each
		Say 8.000 each @ Rs 1941.84 / each	Rs 15534.72
76	od18723/2019_2020 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. 1400mm sweep ceiling fan complete with 300mm down rod , canopies, shackles and blades and resistance type regulator working on 230V/240V single phase A/C		
		Net Total Quantity	23.000 each
		Say 23.000 each @ Rs 1792.94 / each	Rs 41237.62
77	od70874/2019_2020 SITC o 20 kVA UPS with battery bank etc with all accessories having a back of 1 hours		
		Net Total Quantity	1.000 no

Say 1.000 no @ Rs 474577.00 / no		Rs 474577.00
3 MAIN BUILDING TYPE 1 FIRE FIGHTING WORKS		
1	od19541/2019_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		5.000 each
Say 5.000 each @ Rs 6147.95 / each		Rs 30739.75
2	od19543/2019_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		5.000 each
Say 5.000 each @ Rs 9705.36 / each		Rs 48526.80
3	od19545/2019_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/cm ² at outlet. Make:- ISI Approved	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 8277.68 / each		Rs 41388.40
4	od19575/2019_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		5.000 each
Say 5.000 each @ Rs 5459.48 / each		Rs 27297.40
5	od19563/2019_2020 Providing and fixing 63 mm dia standard stainless steel short Branch Pipe female instantaneous inlet, male threaded outlet, complete with hexagonal base nozzle as per IS 903 with 20 mm nozzle complete with fixing clamps. Make: Essel/Priyanka/Newage	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 2676.48 / each		Rs 13382.40

6	od18647/2019_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		3.000 metre
Say 3.000 metre @ Rs 1091.50 / metre		Rs 3274.50
7	od19558/2019_2020 Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 5 kg capacity with initial charger and installation brackets.Make - Safex / Warrior / Intime	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 2200.99 / each		Rs 11004.95
8	od18658/2019_2020 ESCAPE ROUTE SIGNS :- Supply & installing in position self glowing " EXIT " sign board to guide the occupants towards the exits 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		5.000 each
Say 5.000 each @ Rs 744.68 / each		Rs 3723.40
9	od18663/2019_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		3.000 each
Say 3.000 each @ Rs 541.99 / each		Rs 1625.97
10	od18666/2019_2020 3 core cable,2.5sq mm,copper. Make:- ISI approved	
Net Total Quantity		25.000 metre
Say 25.000 metre @ Rs 335.59 / metre		Rs 8389.75
11	od18670/2019_2020 Providing and fixing Two Way Fire Brigade Inlet to Hydrant outside the Building (Butterfly valve and non return valve to be paid separately) complete in all respects : Make:- ISI Approved.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 10068.32 / no		Rs 10068.32
12	od18674/2019_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	Rs 2803.03
13	od19559/2019_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	Rs 52365.00
14	od19578/2019_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	102.000 metre
		Say 102.000 metre @ Rs 1318.44 / metre	Rs 134480.88
15	od19582/2019_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	Rs 28305.90
16	od18688/2019_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	Rs 7588.38
17	od18692/2019_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 970.99 / each	Rs 970.99

18	od18695/2019_2020 Providing and fixing 25 mm dia. Air Releasing Valve. Make:- ISI Approved.	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 1579.15 / each		Rs 1579.15
19	od18697/2019_2020 Supplying, testing, installation & commissioning of pressure switches for Hydrant, and Standby, including necessary wiring up to control panel & other materials. 	
Net Total Quantity		1.000 each
Say 1.000 each @ Rs 3469.67 / each		Rs 3469.67
20	od18700/2019_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		Rs 17508.30
21	od61527/2019_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		Rs 662372.00
Other 4 SUMP TANK CIVIL WORKS		
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		540.000 cum
Say 540.000 cum @ Rs 165.07 / cum		Rs 89137.80
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		12.300 cum
Say 12.300 cum @ Rs 5869.06 / cum		Rs 72189.44
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		30.750 sqm

Say 30.750 sqm @ Rs 254.19 / sqm		Rs 7816.34
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		45.000 cum
Say 45.000 cum @ Rs 164.81 / cum		Rs 7416.45
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		35.000 cum
Say 35.000 cum @ Rs 8448.78 / cum		Rs 295707.30
6	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		13.220 sqm
Say 13.220 sqm @ Rs 254.19 / sqm		Rs 3360.39
7	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		70.390 cum
Say 70.390 cum @ Rs 9501.92 / cum		Rs 668840.15
8	5.9.2 Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	
Net Total Quantity		427.200 sqm
Say 427.200 sqm @ Rs 496.19 / sqm		Rs 211972.37

9	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	102.790 sqm
		Say 102.790 sqm @ Rs 553.47 / sqm	Rs 56891.18
10	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	7039.000 kilogram
		Say 7039.000 kilogram @ Rs 74.18 / kilogram	Rs 522153.02
11	22.4.1 Providing and Placing in position suitable PVC water stops conforming to IS : 12200 for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete:Serrated with central bulb (225 mm wide, 8-11 mm thick)		
		Net Total Quantity	1.000 metre
		Say 1.000 metre @ Rs 333.09 / metre	Rs 333.09
12	22.23.1 Providing and applying integral crystalline slurry of hydrophilic in nature forwaterproofing treatment to the RCC structures like retaining walls of the basement,water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 partsintegral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 partsintegral crystalline slurry : 1 part water) for horizontal surfaces and applying thesame from negative (internal) side with the help of synthetic fiber brush. The materialshall meet the requirements as specified in ACI-212-3R-2010 i.e by reducingpermeability of concrete by more than 90% compared with control concrete as perDIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystallineslurry shall be capable of self-healing of cracks up to a width of 0.50mm. The workshall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against anyleakage.For vertical surface two coats @0.70 kg per sqm		
		Net Total Quantity	346.752 sqm
		Say 346.752 sqm @ Rs 613.49 / sqm	Rs 212728.88

13	22.23.2 Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @ 1.10 kg per sqm.	
Net Total Quantity		98.670 sqm
Say 98.670 sqm @ Rs 474.90 / sqm		Rs 46858.38
14	13.4.1 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)	
Net Total Quantity		520.000 sqm
Say 520.000 sqm @ Rs 237.02 / sqm		Rs 123250.40
15	od18671/2019_2020 Supply and fixing double sealed Ductile Iron manhole covers of size 800x800 mm with frames (Medium duty)	
Net Total Quantity		6.000 each
Say 6.000 each @ Rs 15801.67 / each		Rs 94810.02
5 MAIN BUILDING 1 HVAC SYSTEM		
1	od27253/2019_2020 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.	
Net Total Quantity		430.000 metre
Say 430.000 metre @ Rs 2059.00 / metre		Rs 885370.00
2	od18631/2019_2020 Supply, installation, testing and commissioning of exhaust fans of size up to 8 Inch (Round type) 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		4.000 no
Say 4.000 no @ Rs 4005.84 / no		Rs 16023.36

3	od27254/2019_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		Rs 171173.00
4	od27257/2019_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		Rs 169680.00
5	od27259/2019_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		Rs 56304.00
6	16.12.2.1 Supply, Installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular / round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, etc as per approved drawings and specifications of following sheet thickness complete as required.Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.63 mm thick	
Net Total Quantity		50.000 metre
Say 50.000 metre @ Rs 825.68 / metre		Rs 41284.00
7	16.16.a Supplying and Fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	
Net Total Quantity		52.000 metre
Say 52.000 metre @ Rs 5327.59 / metre		Rs 277034.68
6 MAIN BUILDING FURNITURE		
1	od18616/2019_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 181867.09 / each		Rs 181867.09
2	<p>od18619/2019_2020</p> <p>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.</p>	
Net Total Quantity		3.000 each
Say 3.000 each @ Rs 23987.93 / each		Rs 71963.79
3	<p>od18623/2019_2020</p> <p>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.</p>	
Net Total Quantity		11.000 each
Say 11.000 each @ Rs 17498.69 / each		Rs 192485.59
4	<p>od18628/2019_2020</p> <p>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.</p>	

		Net Total Quantity	9.000 each
		Say 9.000 each @ Rs 17439.92 / each	Rs 156959.28
5	od18632/2019_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-42.5x D-58 cm		
		Net Total Quantity	1.000 each
		Say 1.000 each @ Rs 144889.23 / each	Rs 144889.23
6	od18636/2019_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 73560.35 / each	Rs 73560.35
7	od18644/2019_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	5.000 each
		Say 5.000 each @ Rs 44038.56 / each	Rs 220192.80

8	<p>od18652/2019_2020</p> <p>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.</p>	
Net Total Quantity		14.000 each
Say 14.000 each @ Rs 25220.30 / each		Rs 353084.20
9	<p>od18655/2019_2020</p> <p>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</p>	
Net Total Quantity		10.000 each
Say 10.000 each @ Rs 4964.91 / each		Rs 49649.10
10	<p>od18662/2019_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		16.000 each
Say 16.000 each @ Rs 8239.56 / each		Rs 131832.96

11	od18665/2019_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/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		32.000 each
Say 32.000 each @ Rs 13013.71 / each		Rs 416438.72
12	od18669/2019_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		195.000 each
Say 195.000 each @ Rs 8935.65 / each		Rs 1742451.75
13	od18673/2019_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		200.000 each
Say 200.000 each @ Rs 4847.99 / each		Rs 969598.00

14	od18677/2019_2020 Supply deliver and place trademark registered branded (JALARAM make JMDX 70) OR Equivalent Library reading cubical with top partition (Double side main unit + Add on unit) Overall size: 1800W x 1200D x 760H mm Top partition: 1750W x 18D x 250H mm Material Description: • Main top of 18mm thick. Wood based high quality Pre-laminated particle board (PLB) of TESA with 2 mm PVC beading all over edges. • Top partition & side partition of 18mm thick. Pre-laminated particle board (PLB) of TESA with 0.5mm PVC beading all over edges fitted with U bracket. • Vertical pillar of 1.2mm thick. (18swg) CRCA sheet IS 513. • Cable cover of 0.9mm thick. (20swg) CRCA sheet IS 513. • Leg frame & footrest of 50x25x1.2mm thick. (18swg) ERW rectangular MS tube (CRC). • Good quality adjustable stud . • 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 (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.	
Net Total Quantity		4.000 each
Say 4.000 each @ Rs 24829.50 / each		Rs 99318.00
15	od18682/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JSF 125(D)) OR Equivalent multipurpose expandable storage rack (Double Faced main Unit + Add on unit) in knock down design with 5 shelves making 6 compartments. Overall size: H-1980 x W-915 x D-535 mm • 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 (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 32987.65 / each		Rs 164938.25
16	od18683/2019_2020 Supply, deliver and place trademark registered branded (JALARAM make JSF 125(S)) OR Equivalent multipurpose expandable storage rack (Single faced main unit + Add on Unit) in knock down design with 5 shelves making 6 compartments. Overall size: H-1980 x W-915 x D-380 mm Material Specifications: • 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 (in house) & same will be demonstrated to the purchaser during pre-dispatch Inspection.	
Net Total Quantity		5.000 each
Say 5.000 each @ Rs 22366.54 / each		Rs 111832.70

17	od18687/2019_2020 Supply, deliver and place trademark registered branded (JALARAM Make-JEC 325 (C)) or approved equivalent Executive Low Back Revolving Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMAX 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement, advanced synchro til mechanism, back rest height adjustment, 3-D wrap around design, tilt lock mechanism, self regulating tilt tension adjustment, seat depth adjustment, high quality moulded foam, pneumatic height adjustment. Overall Size (approx): H:87-104 x W:70 x D:70(cm) Seat height : 44 to 54 (cm) Frame structure: Seat & back from hot mould plywood of minimum 12 mm thickness of ergonomic design . Seat Height adjustment and ergonomics: With Pneumatic gas lift with 300 N force Stroke length of 12.5 cm. Seat height will be adjustable and optimum Height is 44-54 cm . Under structure facility: Revolving, Tilting and Lateral smooth movement on twin wheel castors fixed on five pronged wide base of 65 cm to 75 cm D. 'Tapestry Minimum average weight required 400 to 490 gms per sq. mtr. Tapestry : Tapestry should be tested quality such as stain test, ultra violet test, glue test and color fastening with average weight of 450 grams per square meter. (All the stitches of seat and back boarder should be covered by plastic beading of black cover for elegant look. Cushioning: PU foam having density of 40 kg for back and 50 kgs/m3 for seat. Average thickness of foam not less than 50 mm + 10 mm Polly foam. Base: Tested High quality virgin material. Arm rest material: single piece round soft virgin quality PU handle reinforced within built steel rib.	
Net Total Quantity		30.000 each
Say 30.000 each @ Rs 13339.92 / each		Rs 400197.60
18	od18690/2019_2020 Supply, deliver and place registered branded (JALARAM make-JDT-706 A) or approved equivalent canteen table for 6 persons Overall Size of the table:L-1600 x W-800 x H-750 mm Material Description: Main top of 30mm thick. Post formed MDF top with 0.6mm lamination & longer edges both side post forming (curvica) & other both side PVC edge band by hot melt glue process for beading with matching colour. Top frame of 25x25x1.2mm (18swg) SS 304 grade square tube. Main vertical legs of 60 to 65mm x 1.6mm (16swg) thick. SS 304 or SS 202 grade round tube. Leg support & Footrest of 30mm x 1.6mm (16swg) thick. SS 304 or SS 202 grade round table. Good quality PVC adjustable stud at table. All SS parts with glossy buffing. Trademark registered branded (JALARAM make) canteen chair. Overall Size of the chair: H-900mm Seat Dia:400mm Seat Height:450mm Material Description: Chair frame of OD-19mm x 16swg SS 304 grade pipe with glossy buffing. Back support of OD-12mm tube SS 304 grade with Glossy buffing. Seat top (400mm Round) of 19mm thick. Wooden (Rubber wood) with melamine coated. Good quality PVC shoes at bottom , All SS parts with glossy buffing.	
Net Total Quantity		2.000 each
Say 2.000 each @ Rs 40344.40 / each		Rs 80688.80
19	od18694/2019_2020 Supply and installation of Podium : 600x600x 1200mm ht.	
Net Total Quantity		11.000 each
Say 11.000 each @ Rs 19686.44 / each		Rs 216550.84
7 MAIN BUILDING - ELV WORKS		

1	od19121/2019_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		4.000 no
Say 4.000 no @ Rs 7600.00 / no		Rs 30400.00
2	od19347/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.	
Net Total Quantity		96.000 no
Say 96.000 no @ Rs 220.00 / no		Rs 21120.00
3	od19324/2019_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		4.000 no
Say 4.000 no @ Rs 6250.00 / no		Rs 25000.00
4	od19299/2019_2020 Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch Panel.	
Net Total Quantity		4.000 no
Say 4.000 no @ Rs 1600.00 / no		Rs 6400.00
5	od19362/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.	
Net Total Quantity		1720.000 metre
Say 1720.000 metre @ Rs 39.00 / metre		Rs 67080.00
6	od19125/2019_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		Rs 34500.00
7	od19131/2019_2020 Network Video Recorder: Providing & fixing Network Video Recorder 32-channel 720P or 24-channel 1080P high definition network video input and storage Support simultaneous HDMI and VGA output, resolution up to 1920x1080P/60Hz Supports 256Mbps bandwidth throughput handling, Supports 4-channe, 1080P video real-time decoding and synchronous playback Supports 8 SATA hard disk with capacity up to 4TB.	
Net Total Quantity		1.000 no
Say 1.000 no @ Rs 50200.00 / no		Rs 50200.00

8	od19145/2019_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		Rs 82104.00
9	od19147/2019_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		45.000 no
Say 45.000 no @ Rs 5945.00 / no		Rs 267525.00
10	od19266/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.	
Net Total Quantity		580.000 no
Say 580.000 no @ Rs 69.00 / no		Rs 40020.00
11	od19269/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors	
Net Total Quantity		6.000 no
Say 6.000 no @ Rs 2025.00 / no		Rs 12150.00
12	od18661/2019_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		Rs 979.00
13	od18668/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 40HMS , 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 32893.00 / no		Rs 32893.00
14	od18672/2019_2020 Supply, installation, testing and commissioning of Telephone socket.	
Net Total Quantity		14.000 no
Say 14.000 no @ Rs 260.00 / no		Rs 3640.00

15	od19270/2019_2020 Supply,Installation, Testing & commissioning of Telephone of approved makes including all other accessories for connection.		
		Net Total Quantity	14.000 no
		Say 14.000 no @ Rs 1130.00 / no	Rs 15820.00
16	od18678/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.		
		Net Total Quantity	60.000 metre
		Say 60.000 metre @ Rs 78.00 / metre	Rs 4680.00
17	od18679/2019_2020 Supply & Installation of UG telephone cable jelly filled, 10 pair		
		Net Total Quantity	60.000 metre
		Say 60.000 metre @ Rs 145.00 / metre	Rs 8700.00
18	od18686/2019_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	Rs 1387.00
19	od19271/2019_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	Rs 200650.00
20	od18629/2019_2020 Supply, installation, testing and commissioning of LAN socket.		
		Net Total Quantity	24.000 no
		Say 24.000 no @ Rs 260.00 / no	Rs 6240.00
21	od18633/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M		
		Net Total Quantity	38.000 no
		Say 38.000 no @ Rs 234.00 / no	Rs 8892.00
22	od19273/2019_2020 Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE Switch.		
		Net Total Quantity	4.000 no
		Say 4.000 no @ Rs 26805.00 / no	Rs 107220.00

23	od19358/2019_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		26.000 no
Say 26.000 no @ Rs 1350.00 / no		Rs 35100.00
24	od69992/2019_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 8711.00 / each		Rs 8711.00
25	od19350/2019_2020 Supply and laying of Cat6 Outdoor cable	
Net Total Quantity		160.000 metre
Say 160.000 metre @ Rs 45.00 / metre		Rs 7200.00
26	od19296/2019_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		4.000 no
Say 4.000 no @ Rs 34000.00 / no		Rs 136000.00
27	od19301/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.	
Net Total Quantity		4.000 set
Say 4.000 set @ Rs 24590.00 / set		Rs 98360.00
8 NEW SMART CLASSROOM - ELV WORKS		
1	od19362/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.	
Net Total Quantity		660.000 metre
Say 660.000 metre @ Rs 39.00 / metre		Rs 25740.00
2	od19147/2019_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		Rs 118900.00
3	od19266/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.	

		Net Total Quantity	200.000 no
		Say 200.000 no @ Rs 69.00 / no	Rs 13800.00
4	od18629/2019_2020	Supply, installation, testing and commissioning of LAN socket.	
		Net Total Quantity	20.000 no
		Say 20.000 no @ Rs 260.00 / no	Rs 5200.00
5	od18633/2019_2020	Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M	
		Net Total Quantity	20.000 no
		Say 20.000 no @ Rs 234.00 / no	Rs 4680.00
6	od19121/2019_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	Rs 76000.00
7	od19358/2019_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	Rs 27000.00
8	od19301/2019_2020	Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.	
		Net Total Quantity	10.000 set
		Say 10.000 set @ Rs 24590.00 / set	Rs 245900.00
9	od19296/2019_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	Rs 340000.00
9 CONTINGENCIES			
		Lump-Sum Total	Rs 902001.00
		Provision for GST payments (in %) @	12.0%
		Amount reserved for GST payments	10706615.08
		Total	99928407.08

Lumpsum for round off	0.00
TOTAL Rs 99928407.08	
Rounded Total Rs 9,99,28,407	
Rupees Nine Crore Ninety Nine Lakh Twenty Eight Thousand Four Hundred and Seven Only	

(Cost Index Applied for this estimate is 31.06%)



Other Engineering Organisations

PRICE