

TS Register No: 2085/2019-2020

AS Register No:2186/2019-2020

**UP-GRADATION OF GOVT ITI CHENGANNUR ON PAR WITH INTERNATIONAL
STANDARDS PHASE 1 REV 3 - ANNEXURE 2 : ELECTRICAL WORKS, HVAC
WORKS AND FIRE FIGHTING WORKS**

Detailed Estimate

(Dsr year: 2016, Cost Index Applied for this estimate is 48.71%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 MAIN BUILDING - ELECTRICAL WORKS								
1	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)							
		2					2.000	
							Total Quantity	2.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	2.000 set
							Say 2.000 set @ Rs 419.36 / set	Rs 838.72
2	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)							
		30					30.000	
		10					10.000	
		6					6.000	
							Total Quantity	46.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	46.000 set
							Say 46.000 set @ Rs 301.88 / set	Rs 13886.48
3	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)							
		6					6.000	
							Total Quantity	6.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	6.000 set

		Say 6.000 set @ Rs 379.21 / set					Rs 2275.26	
4	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 1/2X 70 sq. mm (38mm)							
		2					2.000	
		Total Quantity					2.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					2.000 set	
		Say 2.000 set @ Rs 585.92 / set					Rs 1171.84	
5	9.1.29 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 240 sq. mm (62mm)							
		2					2.000	
		Total Quantity					2.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					2.000 set	
		Say 2.000 set @ Rs 1470.74 / set					Rs 2941.48	
6	od130258/2019_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							
		1	20.000				20.000	
		Total Quantity					20.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					20.000 metre	
		Say 20.000 metre @ Rs 236.00 / metre					Rs 4720.00	
7	od130259/2019_2020 Supply of 240 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							
		1	80.000				80.000	
		Total Quantity					80.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					80.000 metre	
		Say 80.000 metre @ Rs 1221.00 / metre					Rs 97680.00	

8	od128513/2019_2020 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE						
		1	540.000				540.000
	Total Quantity						540.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						540.000 metre
	Say 540.000 metre @ Rs 118.00 / metre						Rs 63720.00
9	od128515/2019_2020 Supply of 70 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						
		1	10.000				10.000
	Total Quantity						10.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						10.000 metre
	Say 10.000 metre @ Rs 413.00 / metre						Rs 4130.00
10	od180290/2019_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						
		1	80.000				80.000
	Total Quantity						80.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						80.000 metre
	Say 80.000 metre @ Rs 153.00 / metre						Rs 12240.00
11	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						
	GF	1	60.000				60.000
	1F	1	60.000				60.000
	Total Quantity						120.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						120.000 metre
	Say 120.000 metre @ Rs 684.07 / metre						Rs 82088.40
12	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						
	GF	1	80.000				80.000
	1F	1	80.000				80.000
	Total Quantity						160.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						160.000 metre
	Say 160.000 metre @ Rs 782.21 / metre						Rs 125153.60
13	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)						
		1	140.000				140.000
	Total Quantity						140.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						140.000 metre
	Say 140.000 metre @ Rs 37.18 / metre						Rs 5205.20
14	7.8.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)						
		1	420.000				420.000
	Total Quantity						420.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						420.000 metre
	Say 420.000 metre @ Rs 31.23 / metre						Rs 13116.60
15	7.8.2 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)						
		1	70.000				70.000
	Total Quantity						70.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						70.000 metre
	Say 70.000 metre @ Rs 72.87 / metre						Rs 5100.90
16	7.8.4						

	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)						
		1	12.000				12.000
	Total Quantity						12.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						12.000 metre
	Say 12.000 metre @ Rs 142.76 / metre						Rs 1713.12
17	7.3.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Above 185 sq. mm and upto 400 sq. mm						
		1	60.000				60.000
	Total Quantity						60.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						60.000 metre
	Say 60.000 metre @ Rs 206.71 / metre						Rs 12402.60
18	7.5.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/HUME/ METAL pipe as required. Above 185 sq. mm and upto 400 sq. mm						
		1	8.000				8.000
	Total Quantity						8.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						8.000 metre
	Say 8.000 metre @ Rs 96.66 / metre						Rs 773.28
19	7.3.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering. Upto 35 sq. mm						
		1	6.000				6.000
	Total Quantity						6.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						6.000 metre
	Say 6.000 metre @ Rs 144.25 / metre						Rs 865.50
20	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following						

	size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm						
		1	7.500				7.500
	Total Quantity						7.500 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						7.500 metre
	Say 7.500 metre @ Rs 26.77 / metre						Rs 200.78
21	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC 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						
		1	18.000				18.000
	Total Quantity						18.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						18.000 metre
	Say 18.000 metre @ Rs 602.28 / metre						Rs 10841.04
22	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.						
		3					3.000
	Total Quantity						3.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						3.000 set
	Say 3.000 set @ Rs 12326.57 / set						Rs 36979.71
23	5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.						
		1	40.000				40.000
	Total Quantity						40.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						40.000 metre
	Say 40.000 metre @ Rs 191.84 / metre						Rs 7673.60
24	od128547/2019_2020 Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required.						
		1	40.000				40.000
	Total Quantity						40.000 metre

							Total Deducted Quantity	0.000 metre
							Net Total Quantity	40.000 metre
							Say 40.000 metre @ Rs 563.40 / metre	Rs 22536.00
25	od128548/2019_2020 Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)							
		1	120.000					120.000
							Total Quantity	120.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	120.000 metre
							Say 120.000 metre @ Rs 410.23 / metre	Rs 49227.60
26	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)							
		16						16.000
							Total Quantity	16.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	16.000 each
							Say 16.000 each @ Rs 4752.71 / each	Rs 76043.36
27	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)							
	GF	1						1.000
	1F	1						1.000
	2F	1						1.000
							Total Quantity	3.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	3.000 each

								Say 3.000 each @ Rs 6490.71 / each	Rs 19472.13	
28	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 incoming and SP/ TP MCB as outgoing (IP 42/43)								
		4						4.000		
		Total Quantity							4.000 each	
		Total Deducted Quantity							0.000 each	
		Net Total Quantity							4.000 each	
		Say 4.000 each @ Rs 7868.71 / each							Rs 31474.84	
29	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								
		7						7.000		
		Total Quantity							7.000 each	
		Total Deducted Quantity							0.000 each	
		Net Total Quantity							7.000 each	
		Say 7.000 each @ Rs 1008.25 / each							Rs 7057.75	
30	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								
		22						22.000		
		Total Quantity							22.000 each	
		Total Deducted Quantity							0.000 each	
		Net Total Quantity							22.000 each	
		Say 22.000 each @ Rs 1040.97 / each							Rs 22901.34	
31	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								
	GF	5						5.000		
	1F	5						5.000		
	2F	5						5.000		
	LGF	1						1.000		

		Total Quantity						16.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						16.000 each	
		Say 16.000 each @ Rs 991.90 / each						Rs 15870.40	
32	2.15.2	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps							
	GF	5					5.000		
	1F	5					5.000		
	2F	5					5.000		
	LGF	1					1.000		
		Total Quantity						16.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						16.000 each	
		Say 16.000 each @ Rs 3169.01 / each						Rs 50704.16	
33	2.15.3	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.63 amps							
		7					7.000		
		Total Quantity						7.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						7.000 each	
		Say 7.000 each @ Rs 3423.30 / each						Rs 23963.10	
34	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							
		213					213.000		
		Total Quantity						213.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						213.000 each	
		Say 213.000 each @ Rs 257.27 / each						Rs 54798.51	
35	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.							

		246					246.000	
	Total Quantity						246.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						246.000	each
	Say 246.000 each @ Rs 10.41 / each						Rs 2560.86	
36	<p>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.</p>							
	GROUND FLOOR	8					8.000	
	FIRST FLOOR	4					4.000	
	2F	4					4.000	
	Total Quantity						16.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						16.000	each
	Say 16.000 each @ Rs 1457.36 / each						Rs 23317.76	
37	<p>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.</p>							
	GROUND FLOOR	8					8.000	
	FIRST FLOOR	4					4.000	
	2F	4					4.000	
	Total Quantity						16.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						16.000	each
	Say 16.000 each @ Rs 2163.73 / each						Rs 34619.68	
38	<p>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.</p>							
	GROUND FLOOR	6					6.000	
	Total Quantity						6.000	each

		Total Deducted Quantity					0.000 each	
		Net Total Quantity					6.000 each	
		Say 6.000 each @ Rs 3699.90 / each					Rs 22199.40	
39	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							
	GROUND FLOOR	1	1400.000				1400.000	
	FIRST FLOOR	1	1400.000				1400.000	
	2F	1	1400.000				1400.000	
	LGF	1	180.000				180.000	
		Total Quantity					4380.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					4380.000 metre	
		Say 4380.000 metre @ Rs 166.56 / metre					Rs 729532.80	
40	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							
	GF	1	550.000				550.000	
	1F	1	550.000				550.000	
	2F	1	550.000				550.000	
	LGF	1	180.000				180.000	
		Total Quantity					1830.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					1830.000 metre	
		Say 1830.000 metre @ Rs 203.73 / metre					Rs 372825.90	
41	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							
	GF	1	200.000				200.000	
	1F	1	80.000				80.000	
	2F	1	80.000				80.000	
		Total Quantity					360.000 metre	

		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					360.000 metre	
		Say 360.000 metre @ Rs 249.83 / metre					Rs 89938.80	
42	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							
	GF	1	160.000				160.000	
	1F	1	120.000				120.000	
	2F	1	120.000				120.000	
		Total Quantity					400.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					400.000 metre	
		Say 400.000 metre @ Rs 417.88 / metre					Rs 167152.00	
43	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							
	GF	1	160.000				160.000	
		Total Quantity					160.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					160.000 metre	
		Say 160.000 metre @ Rs 587.40 / metre					Rs 93984.00	
44	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							
	GF	85					85.000	
	1F	130					130.000	
	2F	130					130.000	
		Total Quantity					345.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					345.000 each	
		Say 345.000 each @ Rs 124.92 / each					Rs 43097.40	
45	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							

	GF	25					25.000		
	1F	24					24.000		
	2F	24					24.000		
	LGF	8					8.000		
	Total Quantity						81.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						81.000	each	
	Say 81.000 each @ Rs 169.53 / each						Rs 13731.93		
46	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								
	GF	85					85.000		
	1F	130					130.000		
	2F	130					130.000		
	Total Quantity						345.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						345.000	each	
	Say 345.000 each @ Rs 120.46 / each						Rs 41558.70		
47	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								
	GF	25					25.000		
	1F	24					24.000		
	2F	24					24.000		
	LGF	8					8.000		
	Total Quantity						81.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						81.000	each	
	Say 81.000 each @ Rs 227.53 / each						Rs 18429.93		
48	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						
	GF	20					20.000
	1F	14					14.000
	2F	14					14.000
	LGF	2					2.000
	Total Quantity						50.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						50.000 each
	Say 50.000 each @ Rs 455.55 / each						Rs 22777.50
49	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						
	GF	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 144.25 / each						Rs 144.25
50	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						
	GF	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 169.53 / each						Rs 169.53
51	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.						
	GF	70					70.000
	1F	70					70.000
	2F	70					70.000

							Total Quantity	210.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	210.000 each
							Say 210.000 each @ Rs 428.28 / each	Rs 89938.80
52	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)						
	GF	2					2.000	
							Total Quantity	2.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	2.000 each
							Say 2.000 each @ Rs 260.24 / each	Rs 520.48
53	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)						
	GF	32					32.000	
	1F	28					28.000	
	2F	28					28.000	
	LGF	8					8.000	
							Total Quantity	96.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	96.000 each
							Say 96.000 each @ Rs 275.11 / each	Rs 26410.56
54	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)						
	GF	39					39.000	
	1F	63					63.000	
	2F	63					63.000	
							Total Quantity	165.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	165.000 each
							Say 165.000 each @ Rs 383.67 / each	Rs 63305.55
55	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.						

		1					1.000		
	Total Quantity						1.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						1.000	each	
	Say 1.000 each @ Rs 90.71 / each						Rs 90.71		
56	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. FRLS PVC insulated copper conductor single core cable etc as required. Group C								
	GF	203					203.000		
	1F	225					225.000		
	2F	225					225.000		
	LGF	12					12.000		
	Total Quantity						665.000	point	
	Total Deducted Quantity						0.000	point	
	Net Total Quantity						665.000	point	
	Say 665.000 point @ Rs 1125.73 / point						Rs 748610.45		
57	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.								
	GF	6					6.000		
	1F	6					6.000		
	2F	6					6.000		
	LGF	1					1.000		
	Total Quantity						19.000	point	
	Total Deducted Quantity						0.000	point	
	Net Total Quantity						19.000	point	
	Say 19.000 point @ Rs 1203.06 / point						Rs 22858.14		
58	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								

	GF	12					12.000	
	1F	8					8.000	
	2F	8					8.000	
	Total Quantity						28.000 point	
	Total Deducted Quantity						0.000 point	
	Net Total Quantity						28.000 point	
	Say 28.000 point @ Rs 617.15 / point						Rs 17280.20	
59	90.4.5.2 Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.1200mm sweep -5star rated ceiling fan complete with 300mm down rod , canopies, shackeles and blades and resistance type regulator working on 230V/240V single phase A/C							
	GF	55					55.000	
	1F	62					62.000	
	2F	62					62.000	
	Total Quantity						179.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						179.000 each	
	Say 179.000 each @ Rs 1869.15 / each						Rs 334577.85	
60	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 required1200 mm 1X20W LED Lamp with box type fixture							
	GF	90					90.000	
	1F	58					58.000	
	2F	58					58.000	
	LGF	4					4.000	
	Total Quantity						210.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						210.000 each	
	Say 210.000 each @ Rs 1186.12 / each						Rs 249085.20	
61	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						
	GF	24					24.000
	1F	87					87.000
	2F	87					87.000
	LGF	32					32.000
	Total Quantity						230.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						230.000 each
	Say 230.000 each @ Rs 1467.75 / each						Rs 337582.50
62	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						
	GF	31					31.000
	1F	16					16.000
	2F	16					16.000
	Total Quantity						63.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						63.000 each
	Say 63.000 each @ Rs 2038.75 / each						Rs 128441.25
63	od130260/2019_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, shackeles and blades and resistance type regulator working on 230V/240V single phase A/C						
		31					31.000
	Total Quantity						31.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						31.000 each

									Say 31.000 each @ Rs 1818.88 / each	Rs 56385.28
64	od130261/2019_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								
			11							11.000
		Total Quantity								11.000 each
		Total Deducted Quantity								0.000 each
		Net Total Quantity								11.000 each
		Say 11.000 each @ Rs 1972.63 / each								Rs 21698.93
65	od168242/2019_2020	SITC of 30KVA UPS with 12V 80Ah battery for 1 hour back-up complete with all accessories as required.								
			1							1.000
		Total Quantity								1.000 each
		Total Deducted Quantity								0.000 each
		Net Total Quantity								1.000 each
		Say 1.000 each @ Rs 940691.83 / each								Rs 940691.83
66	od160929/2019_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. (Make: crompton)								
			16							16.000
		Total Quantity								16.000 each
		Total Deducted Quantity								0.000 each
		Net Total Quantity								16.000 each
		Say 16.000 each @ Rs 613.61 / each								Rs 9817.76
67	od160930/2019_2020	Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.								
			59							59.000
		Total Quantity								59.000 each
		Total Deducted Quantity								0.000 each
		Net Total Quantity								59.000 each
		Say 59.000 each @ Rs 278.63 / each								Rs 16439.17
68	od160931/2019_2020	SITC of SSB 3 (UPS) Supply, installation , testing and commissioning of totally enclosed								

	<p>compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated, bus-bar chamber, outgoing switchgear etc. (all feeder unit Would be 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: - 32A 10KA TP MCB – 8 Nos, 16A 10KA TP MCB - 2 No</p>						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 82049.50 / each						Rs 82049.50
69	<p>od160932/2019_2020 SITC of MDB 2 (Main Building 2, L&P, Chengannur)
Supply, installation, testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated, bus-bar chamber, outgoing switchgear etc. (all feeder unit Would be 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: - 400A TPN Isolator – 1 No. Outgoing: - 100A 25KA TP MCCB – 3 Nos, 80A 25KA TP MCCB - 1 No, 63A 25KA TP MCB - 1 No</p>						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 116854.21 / each						Rs 116854.21
70	<p>od160933/2019_2020 SITC of SSB 1 (Main Building 2, L&P, Chengannur)
Supply, installation, testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated, bus-bar chamber, outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of</p>						

	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: - 25A TP MCB – 4 Nos, 32A TP MCB - 5 Nos, 40A TP MCB - 5 No							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 81840.10 / each						Rs 81840.10	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
2 HOSTEL BUILDING ELECTRICAL WORKS								
1	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)							
		4					4.000	
	Total Quantity						4.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						4.000 set	
	Say 4.000 set @ Rs 301.88 / set						Rs 1207.52	
2	od180290/2019_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							
		1	90.000				90.000	
	Total Quantity						90.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						90.000 metre	
	Say 90.000 metre @ Rs 153.00 / metre						Rs 13770.00	
3	od130262/2019_2020 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	55.000				55.000	
	Total Quantity						55.000 metre	

							Total Deducted Quantity	0.000 metre
							Net Total Quantity	55.000 metre
							Say 55.000 metre @ Rs 118.00 / metre	Rs 6490.00
4	7.1.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Upto 35 sq. mm						
		1	55.000					55.000
							Total Quantity	55.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	55.000 metre
							Say 55.000 metre @ Rs 306.34 / metre	Rs 16848.70
5	7.7.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)						
		1	70.000					70.000
							Total Quantity	70.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	70.000 metre
							Say 70.000 metre @ Rs 37.18 / metre	Rs 2602.60
6	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)						
		1	15.000					15.000
							Total Quantity	15.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	15.000 metre
							Say 15.000 metre @ Rs 31.23 / metre	Rs 468.45
7	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)						
		2						2.000
							Total Quantity	2.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	2.000 set

								Say 2.000 set @ Rs 383.67 / set	Rs 767.34	
8	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)								
		2						2.000		
		Total Quantity							2.000 set	
		Total Deducted Quantity							0.000 set	
		Net Total Quantity							2.000 set	
		Say 2.000 set @ Rs 379.21 / set							Rs 758.42	
9	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)								
		2						2.000		
		Total Quantity							2.000 each	
		Total Deducted Quantity							0.000 each	
		Net Total Quantity							2.000 each	
		Say 2.000 each @ Rs 4439.71 / each							Rs 8879.42	
10	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)								
		1						1.000		
		Total Quantity							1.000 each	
		Total Deducted Quantity							0.000 each	
		Net Total Quantity							1.000 each	
		Say 1.000 each @ Rs 6490.71 / each							Rs 6490.71	
11	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								
		2						2.000		
		Total Quantity							2.000 each	

		Total Quantity						2.000 each
		Total Deducted Quantity						0.000 each
		Net Total Quantity						2.000 each
		Say 2.000 each @ Rs 3169.01 / each						Rs 6338.02
20	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)						
		6					6.000	
		Total Quantity						6.000 each
		Total Deducted Quantity						0.000 each
		Net Total Quantity						6.000 each
		Say 6.000 each @ Rs 275.11 / each						Rs 1650.66
21	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						
		4					4.000	
		2					2.000	
		Total Quantity						6.000 each
		Total Deducted Quantity						0.000 each
		Net Total Quantity						6.000 each
		Say 6.000 each @ Rs 169.53 / each						Rs 1017.18
22	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						
		6					6.000	
		Total Quantity						6.000 each
		Total Deducted Quantity						0.000 each
		Net Total Quantity						6.000 each
		Say 6.000 each @ Rs 227.53 / each						Rs 1365.18
23	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						
		1					1.000	
		Total Quantity						1.000 each
		Total Deducted Quantity						0.000 each

													Net Total Quantity	1.000 each
													Say 1.000 each @ Rs 169.53 / each	Rs 169.53
24	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.												
			41											41.000
													Total Quantity	41.000 each
													Total Deducted Quantity	0.000 each
													Net Total Quantity	41.000 each
													Say 41.000 each @ Rs 428.28 / each	Rs 17559.48
25	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.												
			1											1.000
													Total Quantity	1.000 each
													Total Deducted Quantity	0.000 each
													Net Total Quantity	1.000 each
													Say 1.000 each @ Rs 90.71 / each	Rs 90.71
26	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												
			47											47.000
													Total Quantity	47.000 each
													Total Deducted Quantity	0.000 each
													Net Total Quantity	47.000 each
													Say 47.000 each @ Rs 1186.12 / each	Rs 55747.64
27	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												
			41											41.000
													Total Quantity	41.000 each
													Total Deducted Quantity	0.000 each

		Net Total Quantity					41.000 each	
		Say 41.000 each @ Rs 1869.15 / each					Rs 76635.15	
28	od130265/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.							
		1	30.000				30.000	
		Total Quantity					30.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					30.000 metre	
		Say 30.000 metre @ Rs 2855.67 / metre					Rs 85670.10	
29	5.2 Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required							
		2					2.000	
		Total Quantity					2.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					2.000 set	
		Say 2.000 set @ Rs 5460.63 / set					Rs 10921.26	
30	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							
		40					40.000	
		Total Quantity					40.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					40.000 each	
		Say 40.000 each @ Rs 455.55 / each					Rs 18222.00	
31	od130266/2019_2020							

	Supply, installation , testing and commissioning of heavy duty exhaust fan of size 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.							
		2					2.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 4229.80 / each						Rs 8459.60	
32	od130261/2019_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							
		16					16.000	
	Total Quantity						16.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						16.000 each	
	Say 16.000 each @ Rs 1972.63 / each						Rs 31562.08	
33	od160929/2019_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. (Make: crompton)							
		10					10.000	
	Total Quantity						10.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						10.000 each	
	Say 10.000 each @ Rs 613.61 / each						Rs 6136.10	
34	od160930/2019_2020 Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.							
		48					48.000	
	Total Quantity						48.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						48.000 each	
	Say 48.000 each @ Rs 278.63 / each						Rs 13374.24	
SI No	Description	No	L	B	D	CF	Quantity	Remark
3 MAIN BUILDING 1 HVAC SYSTEM								

1	od131627/2019_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							
		6					6.000	
	Total Quantity						6.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						6.000 each	
	Say 6.000 each @ Rs 1805.11 / each						Rs 10830.66	
2	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							
	Ground Floor	25					25.000	
	First Floor	25					25.000	
	Second floor	25					25.000	
	Total Quantity						75.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						75.000 metre	
	Say 75.000 metre @ Rs 936.87 / metre						Rs 70265.25	
3	16.16.a Supplying and Fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.							
	For Ground Floor (16 No. Grills)	24					24.000	
	First Floor (15 No)	22.5					22.500	
	Second floor (15 no of grill's)	1	22.500				22.500	
	Total Quantity						69.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						69.000 metre	
	Say 69.000 metre @ Rs 6045.06 / metre						Rs 417109.14	
4	od160941/2019_2020 Supply and fixing of drain pipe for HVAC units							
		1	75.000				75.000	

								Total Quantity	4.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	4.000 each
								Say 4.000 each @ Rs 32636.00 / each	Rs 130544.00
9	1.17.4	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.4 x 1.5 sq. mm							
		1	70.000					70.000	
								Total Quantity	70.000 metre
								Total Deducted Quantity	0.000 metre
								Net Total Quantity	70.000 metre
								Say 70.000 metre @ Rs 95.17 / metre	Rs 6661.90
SI No	Description	No	L	B	D	CF	Quantity	Remark	
4 HOSTEL BUILDING LIGHTNING PROTECTION									
1	6.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.							
		1						1.000	
								Total Quantity	1.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	1.000 each
								Say 1.000 each @ Rs 452.08 / each	Rs 452.08
2	6.7	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)							
		1	185.000					185.000	
								Total Quantity	185.000 metre
								Total Deducted Quantity	0.000 metre
								Net Total Quantity	185.000 metre
								Say 185.000 metre @ Rs 98.15 / metre	Rs 18157.75
3	6.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)							
		1	110.000					110.000	
								Total Quantity	110.000 metre

							Total Deducted Quantity	0.000 metre		
							Net Total Quantity	110.000 metre		
							Say 110.000 metre @ Rs 148.71 / metre	Rs 16358.10		
4	6.12	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.								
		6					6.000			
							Total Quantity	6.000 each		
							Total Deducted Quantity	0.000 each		
							Net Total Quantity	6.000 each		
							Say 6.000 each @ Rs 108.56 / each	Rs 651.36		
5	6.14	Providing and laying G.I. tape 32 mm X 6 mm from earth. electrode directly in ground as required.								
		1	100.000				100.000			
							Total Quantity	100.000 metre		
							Total Deducted Quantity	0.000 metre		
							Net Total Quantity	100.000 metre		
							Say 100.000 metre @ Rs 166.56 / metre	Rs 16656.00		
6	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.								
		6					6.000			
							Total Quantity	6.000 set		
							Total Deducted Quantity	0.000 set		
							Net Total Quantity	6.000 set		
							Say 6.000 set @ Rs 12326.57 / set	Rs 73959.42		
Sl No	Description	No	L	B	D	CF	Quantity	Remark		
5 SUMP TANK ELECTRICAL WORKS										
1	od130267/2019_2020	Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE								
		1	80.000				80.000			
							Total Quantity	80.000 metre		
							Total Deducted Quantity	0.000 metre		

	Say 40.000 metre @ Rs 306.34 / metre						Rs 12253.60	
6	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 37.18 / metre						Rs 371.80	
7	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)							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 31.23 / metre						Rs 312.30	
8	5.2 Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required							
		2					2.000	
	Total Quantity						2.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						2.000 set	
	Say 2.000 set @ Rs 5460.63 / set						Rs 10921.26	
9	od160946/2019_2020 SITC of SSB Water pump panel. Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , busbar 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: - 63A TPN Isolator – 1 No. Outgoing: - 10A 3P MCB – 4 No., 25A 3P MCB – 5 No., 25A SP MCB – 1 No., 5 hp DOL starter with OLR - 1 No, 3 hp DOL starter with OLR - 2 No.1 hp DOL starter with OLR - 4 No.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 141704.29 / each						Rs 141704.29	
10	od128547/2019_2020 Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required.							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 563.40 / metre						Rs 5634.00	
11	od128548/2019_2020 Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 410.23 / metre						Rs 8204.60	
12	90.16.1.3 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)							
		1	120.000				120.000	
	Total Quantity						120.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						120.000 metre	
	Say 120.000 metre @ Rs 58.38 / metre						Rs 7005.60	
SI No	Description	No	L	B	D	CF	Quantity	Remark
6 SUBSTATION BUILDING ELECTRICAL WORKS								

1	od128809/2019_2020 Supply, installation , testing and commissioning of heavy duty exhaust fan of size 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.						
		2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 3989.18 / each						Rs 7978.36
2	8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.Above 120 sq. mm and upto 400 sq. mm						
		1	290.000				290.000
	Total Quantity						290.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						290.000 metre
	Say 290.000 metre @ Rs 443.16 / metre						Rs 128516.40
3	8.3.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade offollowing size in the existing RCC/ HUME/ METAL pipe as required.Above 120 sq. mm and upto 400 sq. mm						
		1	8.000				8.000
	Total Quantity						8.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						8.000 metre
	Say 8.000 metre @ Rs 96.66 / metre						Rs 773.28
4	7.8.4 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 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)						
		1	75.000				75.000
	Total Quantity						75.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						75.000 metre
	Say 75.000 metre @ Rs 142.76 / metre						Rs 10707.00
5	9.1.29						

	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 240 sq. mm (62mm)								
		6					6.000		
		Total Quantity					6.000 set		
		Total Deducted Quantity					0.000 set		
		Net Total Quantity					6.000 set		
		Say 6.000 set @ Rs 1470.74 / set					Rs 8824.44		
6	9.1.31 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 400 sq. mm (82mm)								
		22					22.000		
		Total Quantity					22.000 set		
		Total Deducted Quantity					0.000 set		
		Net Total Quantity					22.000 set		
		Say 22.000 set @ Rs 2065.58 / set					Rs 45442.76		
7	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 required4 way (8+12) - three phase double cover (IP 42/43)								
		1					1.000		
		Total Quantity					1.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					1.000 each		
		Say 1.000 each @ Rs 2783.71 / each					Rs 2783.71		
8	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								
		12					12.000		
		Total Quantity					12.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					12.000 each		
		Say 12.000 each @ Rs 257.27 / each					Rs 3087.24		

9	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		1				1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 991.90 / each					Rs 991.90	
10	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps		1				1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 3169.01 / each					Rs 3169.01	
11	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		8				8.000	
		Total Quantity					8.000 point	
		Total Deducted Quantity					0.000 point	
		Net Total Quantity					8.000 point	
		Say 8.000 point @ Rs 1125.73 / point					Rs 9005.84	
12	1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required2x1.5 sq.mm + 1x1.5 sq.mm earth wire		1	60.000			60.000	
		Total Quantity					60.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					60.000 metre	
		Say 60.000 metre @ Rs 166.56 / metre					Rs 9993.60	

13	1.14.2 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	1	40.000				40.000	
		Total Quantity					40.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					40.000 metre	
		Say 40.000 metre @ Rs 203.73 / metre					Rs 8149.20	
14	1.31 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	4					4.000	
		Total Quantity					4.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					4.000 each	
		Say 4.000 each @ Rs 465.46 / each					Rs 1861.84	
15	1.32 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	4					4.000	
		Total Quantity					4.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					4.000 each	
		Say 4.000 each @ Rs 603.76 / each					Rs 2415.04	
16	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	12					12.000	
		Total Quantity					12.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					12.000 each	
		Say 12.000 each @ Rs 1186.12 / each					Rs 14233.44	

17	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.								
		8					8.000		
		Total Quantity					8.000 set		
		Total Deducted Quantity					0.000 set		
		Net Total Quantity					8.000 set		
		Say 8.000 set @ Rs 12326.57 / set					Rs 98612.56		
18	od130259/2019_2020 Supply of 240 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								
		1	30.000				30.000		
		Total Quantity					30.000 metre		
		Total Deducted Quantity					0.000 metre		
		Net Total Quantity					30.000 metre		
		Say 30.000 metre @ Rs 1221.00 / metre					Rs 36630.00		
19	od130614/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminium conductor, conductors screened with extruded semi conducting compound XLPE insulated, insulation screened with extruded semi conducting compound in combination with copper tape (0.3KA for 1 sec.) cores laid up. inner sheath of PVC tape, galvanized steel flat strip armoured, and overall PVC sheathed cable conforming to IS: 7098 part II 1985 with latest amendments 								
		1	320.000				320.000		
		Total Quantity					320.000 metre		
		Total Deducted Quantity					0.000 metre		
		Net Total Quantity					320.000 metre		
		Say 320.000 metre @ Rs 1352.00 / metre					Rs 432640.00		
20	od130615/2019_2020 SITC of 500 KVA DG set with standard control panel.								
		1					1.000		
		Total Quantity					1.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					1.000 each		
		Say 1.000 each @ Rs 3452701.66 / each					Rs 3452701.66		

21	od130618/2019_2020 Supply of 400 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						
		1	75.000				75.000
	Total Quantity						75.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						75.000 metre
	Say 75.000 metre @ Rs 1860.00 / metre						Rs 139500.00
22	od128547/2019_2020 Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required.						
		1	50.000				50.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre
	Say 50.000 metre @ Rs 563.40 / metre						Rs 28170.00
23	od128548/2019_2020 Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)						
		1	200.000				200.000
	Total Quantity						200.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						200.000 metre
	Say 200.000 metre @ Rs 410.23 / metre						Rs 82046.00
24	od130620/2019_2020 Dismantling of existing 250 KVA Transformer. (Chengannur)						
		1					1.000
	Total Quantity						1.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						1.000 no
	Say 1.000 no @ Rs 5000.00 / no						Rs 5000.00
25	od130262/2019_2020 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE						

		1	12.000				12.000	
	Total Quantity						12.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						12.000	metre
	Say 12.000 metre @ Rs 118.00 / metre						Rs 1416.00	
26	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)							
		2					2.000	
	Total Quantity						2.000	set
	Total Deducted Quantity						0.000	set
	Net Total Quantity						2.000	set
	Say 2.000 set @ Rs 301.88 / set						Rs 603.76	
27	od160975/2019_2020 SITC of MSB 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: - 1000A 50kA 4P ACB - 1 no. Outgoing: 315A 36kA 3P MCCB - 5 nos, 500A 36kA 3P MCCB - 1 no, 400A 36kA 3P MCCB - 3 nos & 200 A TPN Isolator - 1 no.							
		1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 483807.00 / each						Rs 483807.00	
28	od160977/2019_2020 SITC of Change over panel Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated 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: - 1000A, 50kA, 4P ACB - 2 no, Outgoing: 1000A, 50kA, 4P ACB - 1 no. with AMF relay.								
			1						1.000
		Total Quantity						1.000	each
		Total Deducted Quantity						0.000	each
		Net Total Quantity						1.000	each
		Say 1.000 each @ Rs 584268.31 / each						Rs 584268.31	
29	od160978/2019_2020 SITC of MDB 3 (Hostel, Quarters, WTP,STP, Gate, Canteen, FP) 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: - 315A TPN Isolator – 1 No. Outgoing: -40A 3P MCB – 7 No, 63A 10kA 3P MCCB - 2 nos, 50A 10kA 3P MCCB -1 no & 100A 10kA 3P MCCB - 1 no.								
			1						1.000
		Total Quantity						1.000	each
		Total Deducted Quantity						0.000	each
		Net Total Quantity						1.000	each
		Say 1.000 each @ Rs 107748.73 / each						Rs 107748.73	
30	od180859/2019_2020 Supply, installation, testing and commissioning of indoor USS 630KVA Ratio 11KV/433V, 50 Hz, 3 Phase, Vector DYN-11, complete with all accessories including Load Break Switch, PT & TOD Meter etc as required								
			1						1.000
		Total Quantity						1.000	each
		Total Deducted Quantity						0.000	each
		Net Total Quantity						1.000	each

								Say 1.000 each @ Rs 1229785.32 / each	Rs 1229785.32
31	<p>od180860/2019_2020 SITC of 250KVA APFC Panel. Supply, installation, testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated, bus-bar chamber, outgoing switchgear etc. (all feeder unit would be 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: 630A 4P Isolator. Outgoing: 100A 25kA 3P MCCB - 2 nos, 120A 25 kA 3P MCCB - 2 nos, 63A 25kA 3P MCCB - 2 nos, 50A 25kA 3P MCCB - 1 no & 32A 25kA 3P MCCB - 1 no. with following capacitors in steps: 40 kVA - 1 no, 50 kVA - 2 nos, 30 kVA - 1 no, 25 kVA - 2 nos, 20 kVA - 1 no & 10 kVA - 1 no including capacitor duty contactors.</p>								
			1						1.000
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								1.000 each
	Say 1.000 each @ Rs 287231.73 / each								Rs 287231.73
32	<p>od160979/2019_2020 Supplying and making Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 150 sq. mm (Make: Raychem)</p>								
			1						1.000
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								1.000 each
	Say 1.000 each @ Rs 5233.00 / each								Rs 5233.00
33	<p>od160980/2019_2020 Supplying and making Outdoor heat shrinkable cable jointing kit with lugs for 11KV grade XLPE cable for 3 core 150 sq. mm (Make: Raychem)</p>								
			1						1.000
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								1.000 each
	Say 1.000 each @ Rs 5693.00 / each								Rs 5693.00

34	90.16.1.3 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)							
		1	25.000				25.000	
		Total Quantity					25.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					25.000 metre	
		Say 25.000 metre @ Rs 58.38 / metre					Rs 1459.50	
35	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							
		1	8.000				8.000	
		Total Quantity					8.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					8.000 metre	
		Say 8.000 metre @ Rs 782.21 / metre					Rs 6257.68	
36	4.1.7 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. 600 mm width X 50 mm depth X 2.0 mm thickness							
		1	12.000				12.000	
		Total Quantity					12.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					12.000 metre	
		Say 12.000 metre @ Rs 1412.75 / metre					Rs 16953.00	
37	4.1.12 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. 750 mm width X 62.5 mm depth X 2.0 mm thickness							
		1	12.000				12.000	
		Total Quantity					12.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					12.000 metre	

	Say 12.000 metre @ Rs 1781.55 / metre						Rs 21378.60	
38	od180870/2019_2020 Supply of 185 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							
	For existing panels from proposed MSB	1	450.000				450.000	
	Total Quantity						450.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						450.000 metre	
	Say 450.000 metre @ Rs 949.00 / metre						Rs 427050.00	
39	9.1.27 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 185 sq. mm (57mm)							
		4					4.000	
	Total Quantity						4.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						4.000 set	
	Say 4.000 set @ Rs 1195.63 / set						Rs 4782.52	
40	7.3.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation and refilling the trench etc as required, butexcluding sand cushioning and protective covering.Above 95 sq. mm and upto 185 sq. mm							
		1	270.000				270.000	
	Total Quantity						270.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						270.000 metre	
	Say 270.000 metre @ Rs 169.53 / metre						Rs 45773.10	
SI No	Description	No	L	B	D	CF	Quantity	Remark
7 MAIN BUILDING - ELV WORKS								
1	od130395/2019_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) 							
		5					5.000	
	Total Quantity						5.000 each	

	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 							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 90350.00 / each						Rs 90350.00	
7	od130401/2019_2020 Supply, installation, testing and commissioning of 20 PAIR BOX WITH KRONE MODULES							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 1182.00 / each						Rs 1182.00	
8	od130402/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.							
		1	60.000				60.000	
	Total Quantity						60.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						60.000 metre	
	Say 60.000 metre @ Rs 66.00 / metre						Rs 3960.00	
9	od130403/2019_2020 Supply & Installation of UG telephone cable jelly filled, 10 pair							
		1	60.000				60.000	
	Total Quantity						60.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						60.000 metre	
	Say 60.000 metre @ Rs 123.00 / metre						Rs 7380.00	
10	od130404/2019_2020 Supply,Installation, Testing & commissioning of Telephone of approved makes including all other accessories for connection.							
		14					14.000	
	Total Quantity						14.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						14.000 each	

	Say 14.000 each @ Rs 1141.00 / each							Rs 15974.00	
11	od130405/2019_2020 Supply, installation, testing and commissioning of Telephone socket.								
		14						14.000	
	Total Quantity							14.000 each	
	Total Deducted Quantity							0.000 each	
	Net Total Quantity							14.000 each	
	Say 14.000 each @ Rs 403.00 / each							Rs 5642.00	
12	od130406/2019_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.								
		1						1.000	
	Total Quantity							1.000 each	
	Total Deducted Quantity							0.000 each	
	Net Total Quantity							1.000 each	
	Say 1.000 each @ Rs 836.00 / each							Rs 836.00	
13	od130407/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors								
		6						6.000	
	Total Quantity							6.000 each	
	Total Deducted Quantity							0.000 each	
	Net Total Quantity							6.000 each	
	Say 6.000 each @ Rs 2044.00 / each							Rs 12264.00	
14	od130408/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.								
		1	870.000					870.000	
	Total Quantity							870.000 metre	
	Total Deducted Quantity							0.000 metre	
	Net Total Quantity							870.000 metre	
	Say 870.000 metre @ Rs 66.00 / metre							Rs 57420.00	
15	od130409/2019_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.								

		75					75.000		
	Total Quantity						75.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						75.000	each	
	Say 75.000 each @ Rs 5957.00 / each						Rs 446775.00		
16	od130410/2019_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.								
		8					8.000		
	Total Quantity						8.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						8.000	each	
	Say 8.000 each @ Rs 10299.00 / each						Rs 82392.00		
17	od130411/2019_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.								
		1					1.000		
	Total Quantity						1.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						1.000	each	
	Say 1.000 each @ Rs 50375.00 / each						Rs 50375.00		
18	od130412/2019_2020 Supply, installation, testing and commissioning of 32" Flat Screen VGA Color Monitor. 								
		1					1.000		
	Total Quantity						1.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						1.000	each	
	Say 1.000 each @ Rs 22215.00 / each						Rs 22215.00		
19	od130413/2019_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								
		7					7.000		

		2					2.000	
	Total Quantity						2.000	no
	Total Deducted Quantity						0.000	no
	Net Total Quantity						2.000	no
	Say 2.000 no @ Rs 6250.00 / no						Rs 12500.00	
25	od131654/2019_2020 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch Panel.							
		2					2.000	
	Total Quantity						2.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						2.000	each
	Say 2.000 each @ Rs 685.00 / each						Rs 1370.00	
26	od130602/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		5					5.000	
	Total Quantity						5.000	no
	Total Deducted Quantity						0.000	no
	Net Total Quantity						5.000	no
	Say 5.000 no @ Rs 34000.00 / no						Rs 170000.00	
27	od130603/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.							
		5					5.000	
	Total Quantity						5.000	set
	Total Deducted Quantity						0.000	set
	Net Total Quantity						5.000	set
	Say 5.000 set @ Rs 24590.00 / set						Rs 122950.00	
28	od130444/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.							
		1					1.000	
	Total Quantity						1.000	each

							Total Deducted Quantity	0.000 each
							Net Total Quantity	1.000 each
							Say 1.000 each @ Rs 28129.00 / each	Rs 28129.00
29	od136270/2019_2020 SITC of D-Link (DIR-878) AC1900 MU-MIMO 1900Mbps Wi-Fi Router (Without Modem)							
		1					1.000	
							Total Quantity	1.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	1.000 each
							Say 1.000 each @ Rs 5505.00 / each	Rs 5505.00
Sl No	Description	No	L	B	D	CF	Quantity	Remark
8 NEW SMART CLASSROOM - ELV WORKS								
1	od130395/2019_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) 							
		20					20.000	
							Total Quantity	20.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	20.000 each
							Say 20.000 each @ Rs 7658.00 / each	Rs 153160.00
2	od130397/2019_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							
		40					40.000	
							Total Quantity	40.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	40.000 each
							Say 40.000 each @ Rs 1361.00 / each	Rs 54440.00
3	od130399/2019_2020 Supply, installation, testing and commissioning of LAN socket.							
		20					20.000	
							Total Quantity	20.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	20.000 each

	Say 20.000 each @ Rs 393.04 / each							Rs 7860.80
4	od130408/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.							
		1	250.000				250.000	
	Total Quantity							250.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							250.000 metre
	Say 250.000 metre @ Rs 66.00 / metre							Rs 16500.00
5	od130409/2019_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.							
		1	40.000				40.000	
	Total Quantity							40.000 each
	Total Deducted Quantity							0.000 each
	Net Total Quantity							40.000 each
	Say 40.000 each @ Rs 5957.00 / each							Rs 238280.00
6	od130414/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	1200.000				1200.000	
	Total Quantity							1200.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							1200.000 metre
	Say 1200.000 metre @ Rs 39.00 / metre							Rs 46800.00
7	od130602/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		20					20.000	
	Total Quantity							20.000 no
	Total Deducted Quantity							0.000 no
	Net Total Quantity							20.000 no
	Say 20.000 no @ Rs 34000.00 / no							Rs 680000.00
8	od130603/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.							

		20						20.000	
	Total Quantity							20.000	set
	Total Deducted Quantity							0.000	set
	Net Total Quantity							20.000	set
	Say 20.000 set @ Rs 24590.00 / set							Rs 491800.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
9 SUBSTATION BUILDING FIRE FIGHTING WORKS									
1	od130635/2019_2020 Supply, installing, testing and commissioning of Fire Extinguisher Carbondi oxide type ISI mark, 2 kg capacity with initial charger and installation brackets.Make:- ISI Approved.								
		1					1.000		
	Total Quantity							1.000	each
	Total Deducted Quantity							0.000	each
	Net Total Quantity							1.000	each
	Say 1.000 each @ Rs 5468.17 / each							Rs 5468.17	
2	od161486/2019_2020 FIRE BUCKETS:- Supply and Installation of Fire Bucket Stand made of MS Sheet along with 6 numbers bucket								
		1					1.000		
	Total Quantity							1.000	each
	Total Deducted Quantity							0.000	each
	Net Total Quantity							1.000	each
	Say 1.000 each @ Rs 2440.00 / each							Rs 2440.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
10 EXTERNAL LIGHTING									
1	7.3.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation and refilling the trench etc as required, butexcluding sand cushioning and protective covering.Upto 35 sq. mm								
		1	400.000				400.000		
	Total Quantity							400.000	metre
	Total Deducted Quantity							0.000	metre
	Net Total Quantity							400.000	metre
	Say 400.000 metre @ Rs 144.25 / metre							Rs 57700.00	
2	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing								

	size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm							
		1	45.000				45.000	
	Total Quantity						45.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						45.000 metre	
	Say 45.000 metre @ Rs 26.77 / metre						Rs 1204.65	
3	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		1	10.000				10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 37.18 / metre						Rs 371.80	
4	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)							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 31.23 / metre						Rs 624.60	
5	od130647/2019_2020 Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	480.000				480.000	
	Total Quantity						480.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						480.000 metre	
	Say 480.000 metre @ Rs 81.00 / metre						Rs 38880.00	
6	od130265/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.							
		1	20.000				20.000	
	Total Quantity						20.000 metre	

							Net Total Quantity	1.000 each
							Say 1.000 each @ Rs 19426.00 / each	Rs 19426.00
11	od161138/2019_2020 Supply installation testing commissioning of 6 meter Octogaonal Pole made of hot dip galvanised GI sheet 70mm top diameter, 130mm bottom diameter thickness 3mm base plate dimensions of 200x200x12mm suitable for wind speed as per IS 875 Part III single arm bracket 0.5mt including connector foundation bolt 4 nos fixed in existing RCC foundation and junctions box etc. with 45W LED street light output greater than 105lumen/W 4000-6000 K with IP 65/66 protection complete with all other accessories as required.							
		18						18.000
							Total Quantity	18.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	18.000 each
							Say 18.000 each @ Rs 23273.50 / each	Rs 418923.00
12	od180185/2019_2020 Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	180.000					180.000
							Total Quantity	180.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	180.000 metre
							Say 180.000 metre @ Rs 128.00 / metre	Rs 23040.00
13	9.1.8 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 X 16 sq. mm (25mm)							
		2						2.000
							Total Quantity	2.000 set
							Total Deducted Quantity	0.000 set
							Net Total Quantity	2.000 set
							Say 2.000 set @ Rs 300.39 / set	Rs 600.78
SI No	Description	No	L	B	D	CF	Quantity	Remark
11 SMART CLASSROOM EXISTING								

1	od130444/2019_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.						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 28129.00 / each						Rs 28129.00
2	od130422/2019_2020 Supply, installation, testing and commissioning of 10/100/1000 Mbps 16 Port Network Switch to provide networks and internet on class room etc						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 6305.00 / each						Rs 6305.00
3	od130395/2019_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) 						
		12					12.000
	Total Quantity						12.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						12.000 each
	Say 12.000 each @ Rs 7658.00 / each						Rs 91896.00
4	od130396/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors 						
		1	80.000				80.000
	Total Quantity						80.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						80.000 metre
	Say 80.000 metre @ Rs 85.00 / metre						Rs 6800.00
5	od130397/2019_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							
		24					24.000	
	Total Quantity						24.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						24.000 each	
	Say 24.000 each @ Rs 1361.00 / each						Rs 32664.00	
6	od130399/2019_2020 Supply, installation, testing and commissioning of LAN socket.							
		12					12.000	
	Total Quantity						12.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						12.000 each	
	Say 12.000 each @ Rs 393.04 / each						Rs 4716.48	
7	od130406/2019_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.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 836.00 / each						Rs 836.00	
8	od130407/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors							
		4					4.000	
	Total Quantity						4.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						4.000 each	
	Say 4.000 each @ Rs 2044.00 / each						Rs 8176.00	
9	od130408/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.							
		1	180.000				180.000	
	Total Quantity						180.000 metre	

	Total Deducted Quantity								0.000 metre
	Net Total Quantity								180.000 metre
	Say 180.000 metre @ Rs 66.00 / metre								Rs 11880.00
10	od130409/2019_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.								
		20						20.000	
	Total Quantity								20.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								20.000 each
	Say 20.000 each @ Rs 5957.00 / each								Rs 119140.00
11	od130411/2019_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.								
		1						1.000	
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								1.000 each
	Say 1.000 each @ Rs 50375.00 / each								Rs 50375.00
12	od130412/2019_2020 Supply, installation, testing and commissioning of 32" Flat Screen VGA Color Monitor. 								
		1						1.000	
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each
	Net Total Quantity								1.000 each
	Say 1.000 each @ Rs 22215.00 / each								Rs 22215.00
13	od130413/2019_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								
		1						1.000	
	Total Quantity								1.000 each
	Total Deducted Quantity								0.000 each

		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 8699.00 / each					Rs 8699.00	
14	od130414/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	450.000				450.000	
		Total Quantity					450.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					450.000 metre	
		Say 450.000 metre @ Rs 39.00 / metre					Rs 17550.00	
15	od130744/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.							
		1					1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 14353.00 / each					Rs 14353.00	
16	od130417/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.							
		24					24.000	
		Total Quantity					24.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					24.000 each	
		Say 24.000 each @ Rs 222.00 / each					Rs 5328.00	
17	od130745/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port Network Switch to provide networks and internet on class room etc.							
		1					1.000	
		Total Quantity					1.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					1.000 no	
		Say 1.000 no @ Rs 4130.00 / no					Rs 4130.00	
18	od130602/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		12					12.000	

		Total Quantity					12.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					12.000 no	
		Say 12.000 no @ Rs 34000.00 / no					Rs 408000.00	
19	od130603/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.							
		12					12.000	
		Total Quantity					12.000 set	
		Total Deducted Quantity					0.000 set	
		Net Total Quantity					12.000 set	
		Say 12.000 set @ Rs 24590.00 / set					Rs 295080.00	
20	od131656/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch Panel.							
		1					1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 1160.00 / each					Rs 1160.00	
21	od131657/2019_2020 Supply, Installation, Testing and commissioning Of distribution box for CCTV 6Ux600Wx600D With Front Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10							
		1					1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 6502.00 / each					Rs 6502.00	
22	od131654/2019_2020 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch Panel.							
		1					1.000	
		Total Quantity					1.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					1.000 each	
		Say 1.000 each @ Rs 685.00 / each					Rs 685.00	

23	od130748/2019_2020 Supply, installation, testing and commissioning of 8 port PoE switch						
		1					1.000
	Total Quantity						1.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						1.000 no
	Say 1.000 no @ Rs 6250.00 / no						Rs 6250.00
24	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						
		1	360.000				360.000
	Total Quantity						360.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						360.000 metre
	Say 360.000 metre @ Rs 166.56 / metre						Rs 59961.60
25	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						
		1	360.000				360.000
	Total Quantity						360.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						360.000 metre
	Say 360.000 metre @ Rs 203.73 / metre						Rs 73342.80
26	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						
		24					24.000
	Total Quantity						24.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						24.000 each
	Say 24.000 each @ Rs 124.92 / each						Rs 2998.08
27	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						

		12					12.000		
	Total Quantity						12.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						12.000	each	
	Say 12.000 each @ Rs 169.53 / each						Rs 2034.36		
28	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							
		24					24.000		
	Total Quantity						24.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						24.000	each	
	Say 24.000 each @ Rs 120.46 / each						Rs 2891.04		
29	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							
		12					12.000		
	Total Quantity						12.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						12.000	each	
	Say 12.000 each @ Rs 227.53 / each						Rs 2730.36		
30	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)							
		12					12.000		
	Total Quantity						12.000	each	
	Total Deducted Quantity						0.000	each	
	Net Total Quantity						12.000	each	
	Say 12.000 each @ Rs 275.11 / each						Rs 3301.32		
31	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)							
		24					24.000		
	Total Quantity						24.000	each	
	Total Deducted Quantity						0.000	each	

								Net Total Quantity	24.000 each
								Say 24.000 each @ Rs 383.67 / each	Rs 9208.08
32	od136270/2019_2020 SITC of D-Link (DIR-878) AC1900 MU-MIMO 1900Mbps Wi-Fi Router (Without Modem)								
		1							1.000
								Total Quantity	1.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	1.000 each
								Say 1.000 each @ Rs 5505.00 / each	Rs 5505.00
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
12 MAIN BUILDING TYPE 2 FIRE FIGHTING WORKS									
1	od131040/2019_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. 								
		7							7.000
								Total Quantity	7.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	7.000 each
								Say 7.000 each @ Rs 6322.11 / each	Rs 44254.77
2	od131043/2019_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								
		7							7.000
								Total Quantity	7.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	7.000 each
								Say 7.000 each @ Rs 2122.17 / each	Rs 14855.19
3	od131044/2019_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.								
		7							7.000
								Total Quantity	7.000 each
								Total Deducted Quantity	0.000 each
								Net Total Quantity	7.000 each

	Say 7.000 each @ Rs 5440.34 / each						Rs 38082.38	
4	od131049/2019_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.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 989.17 / each						Rs 989.17	
5	od131051/2019_2020 Supply and drawing of 2.5 sqmm 3 core PVC / XLPE insulated armoured control cables with copper conductors for working voltages up to and including 1100 V conforming to IS 1554 part I 1988 for PVC and IS 7098 Part I for XLPE							
		1	35.000				35.000	
	Total Quantity						35.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						35.000 metre	
	Say 35.000 metre @ Rs 371.07 / metre						Rs 12987.45	
6	90.14.28.2 S & F Motor starters of the following ratings Three phase DOL starters for 0.25HP to 7.5 HP motor							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 1627.69 / each						Rs 1627.69	
7	od128532/2019_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.							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 662372.00 / no						Rs 662372.00	
8	od161145/2019_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.						
		4					4.000
	Total Quantity						4.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						4.000 each
	Say 4.000 each @ Rs 510.00 / each						Rs 2040.00
9	od161146/2019_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.						
		8					8.000
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 713.00 / each						Rs 5704.00
10	od161328/2019_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						
		7					7.000
	Total Quantity						7.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						7.000 each
	Say 7.000 each @ Rs 2731.86 / each						Rs 19123.02
11	od254808/2019_2020 (CHENGANNUR) 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, 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) 						
		1	15.000				15.000
	Total Quantity						15.000 per metre
	Total Deducted Quantity						0.000 per metre
	Net Total Quantity						15.000 per metre
	Say 15.000 per metre @ Rs 1869.17 / per metre						Rs 28037.55

12	od254810/2019_2020 (CHENGANNUR) 7.7: Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 100 MM DIA						
		1	120.000				120.000
	Total Quantity						120.000 per metre
	Total Deducted Quantity						0.000 per metre
	Net Total Quantity						120.000 per metre
	Say 120.000 per metre @ Rs 1617.53 / per metre						Rs 194103.60
13	od254811/2019_2020 (CHENGANNUR) 14.5: Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 100 MM DIA						
		2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 12045.36 / each						Rs 24090.72
14	od254812/2019_2020 (CHENGANNUR) 19.1: Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :2 way-100 mm dia M.S. Pipe						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 7307.18 / each						Rs 7307.18
15	od254813/2019_2020 (CHENGANNUR) 25mm Air release valve as per IS:14845 ISI Marked 						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 2091.84 / each						Rs 2091.84

16	od254814/2019_2020 (CHENGANNUR)22: Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required. 						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 1670.17 / each						Rs 1670.17
17	od254815/2019_2020 (CHENGANNUR) 11.5: Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 100MM DIA						
		3					3.000
	Total Quantity						3.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						3.000 each
	Say 3.000 each @ Rs 7107.36 / each						Rs 21322.08
18	od254816/2019_2020 (CHENGANNUR) 9.2: Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required : Singlr headed stainless steel						
		7					7.000
	Total Quantity						7.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						7.000 each
	Say 7.000 each @ Rs 6628.18 / each						Rs 46397.26
19	od254817/2019_2020 (Chengannur) 17.1: Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket. 30m						
		7					7.000
	Total Quantity						7.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						7.000 each

	Say 7.000 each @ Rs 9301.53 / each						Rs 65110.71	
20	od254818/2019_2020 (Chengannur) 4.2: Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520 Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. Suitable cement concrete foundation duly plastered and with anti vibration pads 450 lpm @35 m head							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 95409.11 / each						Rs 95409.11	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
13 HOSTEL BUILDING FIRE PROTECTION WORK								
1	od131040/2019_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.							
		4					4.000	
	Total Quantity						4.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						4.000 each	
	Say 4.000 each @ Rs 6322.11 / each						Rs 25288.44	
2	od131043/2019_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							
		4					4.000	
	Total Quantity						4.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						4.000 each	
	Say 4.000 each @ Rs 2122.17 / each						Rs 8488.68	
3	od131049/2019_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.						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 989.17 / each						Rs 989.17
4	od131051/2019_2020 Supply and drawing of 2.5 sqmm 3 core PVC / XLPE insulated armoured control cables with copper conductors for working voltages up to and including 1100 V conforming to IS 1554 part I 1988 for PVC and IS 7098 Part I for XLPE						
		1	20.000				20.000
	Total Quantity						20.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						20.000 metre
	Say 20.000 metre @ Rs 371.07 / metre						Rs 7421.40
5	90.14.28.2 S & F Motor starters of the following ratingsThree phase DOL starters for 0.25HP to 7.5 HP motor						
		1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 1627.69 / each						Rs 1627.69
6	od161149/2019_2020 Providing and fixing Fire Man axe as required with Test Certificate of 20,000 volts.Make : - ISI Approved.						
		4					4.000
	Total Quantity						4.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						4.000 each
	Say 4.000 each @ Rs 1524.00 / each						Rs 6096.00
7	od161145/2019_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 & necessarry supports to hang it on ceiling.						
		4					4.000
	Total Quantity						4.000 each

	pipe connection conforming to IS 904 as required :2 way-100 mm dia M.S. Pipe								
		1					1.000		
		Total Quantity					1.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					1.000 each		
		Say 1.000 each @ Rs 7307.18 / each					Rs 7307.18		
12	od254813/2019_2020 (CHENGANNUR) 25mm Air release valve as per IS:14845 ISI Marked 								
		1					1.000		
		Total Quantity					1.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					1.000 each		
		Say 1.000 each @ Rs 2091.84 / each					Rs 2091.84		
13	od254814/2019_2020 (CHENGANNUR)22: Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required. 								
		1					1.000		
		Total Quantity					1.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					1.000 each		
		Say 1.000 each @ Rs 1670.17 / each					Rs 1670.17		
14	od254815/2019_2020 (CHENGANNUR) 11.5: Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 100MM DIA								
		3					3.000		
		Total Quantity					3.000 each		
		Total Deducted Quantity					0.000 each		
		Net Total Quantity					3.000 each		
		Say 3.000 each @ Rs 7107.36 / each					Rs 21322.08		
15	od254816/2019_2020 (CHENGANNUR) 9.2: Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required : Singlr headed stainless steel								
		4					4.000		

TOTAL Rs 26015290.59
Rounded Total Rs 2,60,15,291
Rupees Two Crore Sixty Lakh Fifteen Thousand Two Hundred and Ninety One Only

(Cost Index Applied for this estimate is 48.71%)



Other Engineering Organisations

PRICE