

TS Register No: 2092/2019-2020

AS Register No:2193/2019-2020

**UP GRADATION OF GOVT ITI KANNUR ON PAR WITH INTERNATIONAL
STANDARDS-PHASE 1- REV 4 ANNEXURE 2 : ELECTRICAL, ELV, HVAC AND
FIRE PROTECTION WORK**

Detailed Estimate

(Dsr year: **2016**, Cost Index Applied for this estimate is **32.04%**)

SI No	Description	No	L	B	D	CF	Quantity	Remark	
1 MAIN BUILDING GROUND FLOOR ELECTRICAL WORKS									
1	od134264/2019_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								
	From New MSB to Existing panel	1	8.000				8.000		
	From New MSB to Main panel (New)	1	135.000				135.000		
	Total Quantity						143.000 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						143.000 metre		
	Say 143.000 metre @ Rs 1221.00 / metre						Rs 174603.00		
2	od134265/2019_2020 Supply of 120 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	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 640.00 / metre						Rs 28800.00		
3	od134266/2019_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	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 413.00 / metre						Rs 20650.00	
4	od134267/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		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 202.00 / metre						Rs 6060.00	
5	od134268/2019_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	125.000				125.000	
	Total Quantity						125.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						125.000 metre	
	Say 125.000 metre @ Rs 118.00 / metre						Rs 14750.00	
6	9.1.25 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2 X 120 sq. mm (45mm)							
		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 660.20 / set						Rs 1320.40	
7	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)							
		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 1305.88 / set						Rs 5223.52	
8	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)						
		14					14.000
	Total Quantity						14.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						14.000 set
	Say 14.000 set @ Rs 268.04 / set						Rs 3752.56
9	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)						
		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 520.24 / set						Rs 2080.96
10	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)						
		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 340.66 / set						Rs 1362.64
11	9.1.8 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 X 16 sq. mm (25mm)						
		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 266.72 / set						Rs 533.44
12	7.1.3						

	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Above 95 sq. mm and upto 185 sq. mm						
		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 294.45 / metre						Rs 10305.75
13	7.1.4 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.Above 185 sq. mm and upto 400 sq. mm						
		1	115.000				115.000
	Total Quantity						115.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						115.000 metre
	Say 115.000 metre @ Rs 327.46 / metre						Rs 37657.90
14	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)						
		55					55.000
	Total Quantity						55.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						55.000 metre
	Say 55.000 metre @ Rs 33.01 / metre						Rs 1815.55
15	7.7.2 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)						
		40					40.000
	Total Quantity						40.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						40.000 metre
	Say 40.000 metre @ Rs 95.07 / metre						Rs 3802.80
16	7.7.3 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of						

	following size on wall surface as required.Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)						
		10					10.000
	Total Quantity						10.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						10.000 metre
	Say 10.000 metre @ Rs 110.91 / metre						Rs 1109.10
17	7.7.4 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)						
		1	14.000				14.000
	Total Quantity						14.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						14.000 metre
	Say 14.000 metre @ Rs 158.45 / metre						Rs 2218.30
18	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	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 27.73 / metre						Rs 1663.80
19	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	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 126.76 / metre						Rs 2535.20
20	4.1.3 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S.						

	suspenders including bolts & nuts, painting suspenders etc as required.225 mm width X 50 mm depth X 1.6 mm thickness							
		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 607.38 / metre						Rs 27332.10	
21	4.1.4 Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.300 mm width X 50 mm depth X 1.6 mm thickness							
		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 694.53 / metre						Rs 31253.85	
22	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	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 534.76 / metre						Rs 10695.20	
23	5.4 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
		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 5713.37 / set						Rs 22853.48	
24	od134401/2019_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 542.73 / metre						Rs 21709.20	
25	od134402/2019_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	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 406.73 / metre						Rs 16269.20	
26	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	240.000				240.000	
	Total Quantity						240.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						240.000 metre	
	Say 240.000 metre @ Rs 56.88 / metre						Rs 13651.20	
27	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)							
		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 4416.54 / each						Rs 17666.16	
28	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 required 8 way (8+24) - 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 4729.54 / each					Rs 4729.54	
29	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 required 4 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 6467.54 / each					Rs 6467.54	
30	90.11.1.16 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 8 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)							
		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 7845.54 / each					Rs 7845.54	
31	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							

		66					66.000	
	Total Quantity						66.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						66.000	each
	Say 66.000 each @ Rs 228.43 / each						Rs 15076.38	
32	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							
		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 924.28 / each						Rs 11091.36	
33	2.15.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 25 amps							
		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 2767.56 / each						Rs 2767.56	
34	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							
		5					5.000	
	Total Quantity						5.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						5.000	each
	Say 5.000 each @ Rs 2813.77 / each						Rs 14068.85	
35	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							

		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 3039.56 / each						Rs 3039.56	
36	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							
		5					5.000	
	Total Quantity						5.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						5.000	each
	Say 5.000 each @ Rs 880.71 / each						Rs 4403.55	
37	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							
		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 895.23 / each						Rs 1790.46	
38	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							
		350					350.000	
	Total Quantity						350.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						350.000	metre
	Say 350.000 metre @ Rs 147.88 / metre						Rs 51758.00	
39	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required.Group C							
		96					96.000	

						Total Quantity	96.000 point	
						Total Deducted Quantity	0.000 point	
						Net Total Quantity	96.000 point	
						Say 96.000 point @ Rs 999.54 / point	Rs 95955.84	
40	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.						
		4					4.000	
						Total Quantity	4.000 point	
						Total Deducted Quantity	0.000 point	
						Net Total Quantity	4.000 point	
						Say 4.000 point @ Rs 1068.20 / point	Rs 4272.80	
41	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						
		6					6.000	
						Total Quantity	6.000 point	
						Total Deducted Quantity	0.000 point	
						Net Total Quantity	6.000 point	
						Say 6.000 point @ Rs 547.97 / point	Rs 3287.82	
42	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						
		400					400.000	
						Total Quantity	400.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	400.000 metre	
						Say 400.000 metre @ Rs 180.89 / metre	Rs 72356.00	
43	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						
		68					68.000	

		Total Quantity					68.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					68.000	each
		Say 68.000 each @ Rs 110.91 / each					Rs 7541.88	
44	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						
		29					29.000	
		Total Quantity					29.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					29.000	each
		Say 29.000 each @ Rs 150.53 / each					Rs 4365.37	
45	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						
		68					68.000	
		Total Quantity					68.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					68.000	each
		Say 68.000 each @ Rs 106.95 / each					Rs 7272.60	
46	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						
		29					29.000	
		Total Quantity					29.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					29.000	each
		Say 29.000 each @ Rs 202.02 / each					Rs 5858.58	
47	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						
		1	1.000	1.000	1.000		1.000	
		Total Quantity					1.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					1.000	each

		Say 1.000 each @ Rs 128.08 / each						Rs 128.08	
48	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	1.000	1.000		1.000		
		Total Quantity						1.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						1.000 each	
		Say 1.000 each @ Rs 150.53 / each						Rs 150.53	
49	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.								
		21					21.000		
		Total Quantity						21.000 each	
		Total Deducted Quantity						0.000 each	
		Net Total Quantity						21.000 each	
		Say 21.000 each @ Rs 380.28 / each						Rs 7985.88	
50	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								
		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 430.38 / each						Rs 9468.36	
51	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)								

		40	1.000	1.000	1.000		40.000	
	Total Quantity						40.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						40.000 each	
	Say 40.000 each @ Rs 231.07 / each						Rs 9242.80	
52	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)							
		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 244.27 / each						Rs 10015.07	
53	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)							
		28					28.000	
	Total Quantity						28.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						28.000 each	
	Say 28.000 each @ Rs 340.66 / each						Rs 9538.48	
54	1.38 Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.							
		1	1.000	1.000	1.000		1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 80.54 / each						Rs 80.54	
55	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							
		21					21.000	
	Total Quantity						21.000 each	

							Total Deducted Quantity	0.000 each
							Net Total Quantity	21.000 each
							Say 21.000 each @ Rs 1858.15 / each	Rs 39021.15
56	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						
		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 1174.79 / each	Rs 56389.92
57	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						
		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 1432.25 / each	Rs 20051.50
58	90.4.1	Supply and installation of suitable size MS rod type fan clamp in the RCC slab as per IS 732 as required.						
		21						21.000
							Total Quantity	21.000 each
							Total Deducted Quantity	0.000 each
							Net Total Quantity	21.000 each
							Say 21.000 each @ Rs 149.50 / each	Rs 3139.50
59	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side 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 196.74 / each						Rs 1180.44	
60	od133961/2019_2020 SITC of 100 KVA DG set with standard control panel complete with all other 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 727065.00 / each						Rs 727065.00	
61	od163325/2019_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)							
		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 608.61 / each						Rs 6694.71	
62	od163326/2019_2020 Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.							
		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 260.96 / each						Rs 3653.44	
63	od168074/2019_2020 SITC of MSB new (Kannur) 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, Busbar: 630A, Aluminium TP&N busbar, Outgoing: 200A, 36kA, 4P MCCB - 2 Nos.							
		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 125588.17 / each					Rs 125588.17	
64	od168082/2019_2020 SITC of MAIN PANEL (Kannur) 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 compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: 200A, 36kA, 4P MCCB - 1 No, 250A, 4P Isolator - 1 No 200A 4P Contactor & 150A, 4P Contactor AMF relay with electrical interlock 200A Al bubar for 3 phase and neutral. Outgoing: 125A, 25kA, 3P, MCCB - 1No 100A, 25kA, 3P MCCB - 3 No. 160A, TPN Isolator - 1 No. 50A 25kA 3P MCCB - 2 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 205196.74 / each					Rs 205196.74	
65	od168125/2019_2020 SITC of SSB1 - Classroom building (Kannur) 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 compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of							

	size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: 150A, TPN Isolator Busbar - 150A Al for 3 phases and neutral Outgoing: 63A, 16kA, 3P MCCB - 1 No 50A, 16kA, 3P MCCB - 5 Nos. 32A, 16kA, 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 109524.13 / each						Rs 109524.13
66	od168143/2019_2020 SITC of SSB 5 - Fifa ground lighting, feeder pillar, gate DB (Kannur) 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: 150A, TPN Isolator Busbar - 150A Al for 3 phases and neutral Outgoing: 40A SP MCB 10kA - 3 no 40A 3P MCB 10kA - 1 no 63A 16kA 3P MCCB - 2 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 73425.43 / each						Rs 73425.43
67	od168204/2019_2020 Supply, Installation, Testing and commissioning of 15 KVA UPS with 1 hour battery 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 516710.75 / each						Rs 516710.75
68	7.10						

	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.							
		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 355.19 / no						Rs 1775.95	
SI No	Description	No	L	B	D	CF	Quantity	Remark
2 FRONT GATE WITH SECURITY CABIN ELECTRICAL WORKS AND COMPOUND WALL LIGHTING								
1	90.11.1.10 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP 42/43)	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 2760.54 / each						Rs 2760.54	
2	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	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 228.43 / each						Rs 2741.16	
3	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 880.71 / each						Rs 880.71	
4	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 2813.77 / each						Rs 2813.77	
5	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required.Group C							
		6					6.000	
	Total Quantity						6.000 point	
	Total Deducted Quantity						0.000 point	
	Net Total Quantity						6.000 point	
	Say 6.000 point @ Rs 999.54 / point						Rs 5997.24	
6	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	50.000				50.000	
		1	210.000				210.000	
	Total Quantity						260.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						260.000 metre	
	Say 260.000 metre @ Rs 147.88 / metre						Rs 38448.80	
7	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 required2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire							
		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 180.89 / metre						Rs 2713.35
8	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).						
		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 413.29 / each						Rs 826.58
9	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.						
		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 536.08 / each						Rs 536.08
10	od134531/2019_2020	Supply, installation, testing and commissioning of Wall fan of 300mm sweep dia on wall, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the Wall fan. 300mm sweep wall fan working on 230 V A/C						
		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 1995.95 / each						Rs 3991.90
11	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, but excluding sand cushioning and protective covering.Upto 35 sq. mm						
		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 128.08 / metre					Rs 2561.60	
12	od134546/2019_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	
13	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 268.04 / set					Rs 536.08	
14	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	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 23.77 / metre					Rs 831.95	
15	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	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 33.01 / metre					Rs 495.15	
16	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	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 534.76 / metre						Rs 6417.12
17	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	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 56.88 / metre						Rs 682.56
18	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						
		1					1.000
	Total Quantity						1.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						1.000 set
	Say 1.000 set @ Rs 4848.51 / set						Rs 4848.51
19	od163332/2019_2020 SITC of 3W LED Recessed Spot light pre wired, working on 230V, 50Hz AC, complete with all other accessories as required.						
		4					4.000
	Total Quantity						4.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						4.000 no
	Say 4.000 no @ Rs 384.33 / no						Rs 1537.32
20	od163333/2019_2020 SITC of 20/25W LED Surface mounting down light, working on 230V, 50Hz AC, complete with all other accessories as required.						

		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 1512.21 / no						Rs 3024.42	
21	od163334/2019_2020 SITC of weather proof pillar light fittings with 9W LED lamp, IP65 for outdoor purpose pre wired and complete with all other accessories as required.							
		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 1134.53 / no						Rs 13614.36	
22	od163335/2019_2020 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with all other accessories as required.							
		4					4.000	
	Total Quantity						4.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						4.000 no	
	Say 4.000 no @ Rs 620.85 / no						Rs 2483.40	
23	od163326/2019_2020 Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.							
		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 260.96 / each						Rs 521.92	
SI No	Description	No	L	B	D	CF	Quantity	Remark
3 EXTERNAL LIGHTING								
1	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	260.000				260.000	

		Total Quantity					260.000 metre
		Total Deducted Quantity					0.000 metre
		Net Total Quantity					260.000 metre
		Say 260.000 metre @ Rs 128.08 / metre					Rs 33300.80
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					
		15				15.000	
		Total Quantity					15.000 metre
		Total Deducted Quantity					0.000 metre
		Net Total Quantity					15.000 metre
		Say 15.000 metre @ Rs 23.77 / metre					Rs 356.55
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)					
		25				25.000	
		Total Quantity					25.000 metre
		Total Deducted Quantity					0.000 metre
		Net Total Quantity					25.000 metre
		Say 25.000 metre @ Rs 33.01 / metre					Rs 825.25
4	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providingmasonry enclosure with cover plate having locking arrangement and watering pipe etc. withcharcoal/ 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 4848.51 / set					Rs 9697.02
5	od134936/2019_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	260.000			260.000	
		Total Quantity					260.000 metre
		Total Deducted Quantity					0.000 metre
		Net Total Quantity					260.000 metre

	Say 260.000 metre @ Rs 81.00 / metre							Rs 21060.00
6	od134937/2019_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
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							20.000 metre
	Say 20.000 metre @ Rs 88.09 / metre							Rs 1761.80
7	od134938/2019_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	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 128.00 / metre							Rs 5760.00
8	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 266.72 / set							Rs 533.44
9	1.17.3 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.3 X 1.5 sq.mm							
		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 66.02 / metre							Rs 6602.00
10	od163348/2019_2020 SITC Of Legrand make feeder pillar complete with the following accessories. Incomer: 40A, DP							

	Isolator. 40A, DP, RCCB, 100mA. Timer control with contactor. Auto/ Manual switch. Outgoing: 10A, SP MCB - 4 Nos.							
		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 19426.00 / each						Rs 19426.00	
11	od163349/2019_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.							
		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 23131.30 / each						Rs 277575.60	
12	90.16.2.5 Supply and laying of the following sizes of B class GI pipe laid 0.6 m below ground level including excavating trench of suitable size and refilling etc, as required.50 mm dia. G.I. pipe (medium class)							
		1	16.000				16.000	
	Total Quantity						16.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						16.000 metre	
	Say 16.000 metre @ Rs 474.02 / metre						Rs 7584.32	
SI No	Description	No	L	B	D	CF	Quantity	Remark
4 ADMINISTRATIVE BUILDING GROUND FLOOR HVAC SYSTEM WORKS								
1	od163371/2019_2020 Supply and fixing of drain pipe for HVAC units							
		20					20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 150.00 / metre						Rs 3000.00	

2	od163372/2019_2020 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.							
		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 1327.00 / metre						Rs 53080.00	
3	od163376/2019_2020 Supply & installation of Modular type outdoor units equipped with minimum 2 Nos of highly efficient compressors with all inverter type compressor(s) only, special acryl pre-coated heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting, with multiple outdoor units of capacities and quantities as mentioned below. Refrigerant Should be R410A .(4 HP CARRIER 3 PHASE COMPRESSOR)							
		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 140510.00 / each						Rs 140510.00	
4	od163392/2019_2020 Supply & installation of High-wall indoor units with compact cooling coil, electronic expansion valve and multi speed fan motor, The blower shall be dynamicaly balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(1 TR Carrier VRF Indoor Unit)							
		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 26449.00 / each						Rs 52898.00	
5	od212814/2019_2020 Supply & installation of 1.00 TR Split A/C with high wall mounted unit . [Mini 3 * Star rating] Copper Condenser Only (Make: Carrier HW split AC/ Hitachi/ Bluestar)							
		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 23000.00 / each						Rs 23000.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark

5 ELV SYSTEM								
1	od134828/2019_2020 SITC of PANASONIC KX-TA 824 24 port hybrid analog Telephone system control unit intercom with 16 extensions							
		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 24110.00 / each						Rs 24110.00	
2	od134829/2019_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							
		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 7611.00 / no						Rs 15222.00	
3	od134830/2019_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	
4	od134831/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 24 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 9083.00 / each							Rs 9083.00
5	od134832/2019_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) 							
		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 7658.00 / each							Rs 15316.00
6	od134833/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors 							
		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 85.00 / metre							Rs 13600.00
7	od134834/2019_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							
		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 1361.00 / each							Rs 8166.00
8	od134835/2019_2020 Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE Switch.							
		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 26881.00 / each							Rs 53762.00
9	od134836/2019_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 367.70 / each	Rs 7354.00
10	od134837/2019_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
11	od134838/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.								
			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 66.00 / metre	Rs 1980.00
12	od134839/2019_2020 Supply & Installation of UG telephone cable jelly filled, 10 pair								
			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 123.00 / metre	Rs 3690.00
13	od134840/2019_2020 Supply, Installation, Testing & commissioning of Telephone of approved makes including all other accessories for connection.								
			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 1141.00 / each	Rs 11410.00
14	od134841/2019_2020 Supply, installation, testing and commissioning of Telephone socket.								

		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 357.83 / each						Rs 3578.30	
15	od134842/2019_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	
16	od134843/2019_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	
17	od134844/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.							
		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 66.00 / metre						Rs 7920.00	
18	od134845/2019_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.							
		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 5957.00 / each					Rs 95312.00	
19	od134846/2019_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.							
		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 10299.00 / each					Rs 102990.00	
20	od134847/2019_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	
21	od134848/2019_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	
22	od134849/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	300.000				300.000	
		Total Quantity					300.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					300.000 metre	
		Say 300.000 metre @ Rs 39.00 / metre					Rs 11700.00	

23	od134850/2019_2020 Supply, Installation, testing and commissioning of Cat6 24 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 1614.00 / each						Rs 3228.00
24	od134851/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.						
		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 222.00 / each						Rs 10656.00
25	1.18.2 Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor,unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.2 Pair						
		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 25.09 / metre						Rs 4516.20
26	1.21.1 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.20 mm						
		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 75.26 / metre						Rs 13546.80
27	od136286/2019_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
SI No	Description	No	L	B	D	CF	Quantity	Remark	
6 NEW SMART CLASS ROOM (ELECTRICAL WORKS - 2 NOS)									
1	od134832/2019_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) 								
		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 7658.00 / each	Rs 15316.00
2	od134834/2019_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								
		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 1361.00 / each	Rs 5444.00
3	od134836/2019_2020 Supply, installation, testing and commissioning of LAN socket.								
		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 367.70 / each	Rs 735.40
4	od134844/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.								
		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 66.00 / metre	Rs 1980.00
5	od134845/2019_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.							
		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 5957.00 / each	Rs 23828.00
6	od134849/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		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 39.00 / metre	Rs 2730.00
7	od133837/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		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 34000.00 / no	Rs 68000.00
8	od133834/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories 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 24590.00 / set	Rs 49180.00
SI No	Description	No	L	B	D	CF	Quantity	Remark

7 SMART CLASS ROOM EXISTING (ELECTRICAL WORKS - 12 NOS)							
1	od134832/2019_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
2	od134834/2019_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
3	od134836/2019_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 367.70 / each						Rs 4412.40
4	od134844/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.						
		1	260.000				260.000
	Total Quantity						260.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						260.000 metre
	Say 260.000 metre @ Rs 66.00 / metre						Rs 17160.00
5	od134845/2019_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.						

		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 5957.00 / each						Rs 142968.00	
6	od134849/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	460.000				460.000	
	Total Quantity						460.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						460.000	metre
	Say 460.000 metre @ Rs 39.00 / metre						Rs 17940.00	
7	od133837/2019_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	
8	od133834/2019_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	
9	od134996/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 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 1160.00 / each						Rs 2320.00	

10	od134997/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.						
		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 14353.00 / each						Rs 28706.00
11	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 228.43 / each						Rs 2741.16
12	od134851/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.						
		32					32.000
	Total Quantity						32.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						32.000 each
	Say 32.000 each @ Rs 222.00 / each						Rs 7104.00
13	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	150.000				150.000
	Total Quantity						150.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						150.000 metre
	Say 150.000 metre @ Rs 147.88 / metre						Rs 22182.00
14	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	150.000				150.000	
	Total Quantity						150.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						150.000 metre	
	Say 150.000 metre @ Rs 180.89 / metre						Rs 27133.50	
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.							
		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 536.08 / each						Rs 6432.96	
16	od135045/2019_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	
17	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 110.91 / each						Rs 2661.84	
18	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 106.95 / each	Rs 2566.80
19	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)						
		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 340.66 / each	Rs 4087.92
20	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or inrecess, 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 413.29 / each	Rs 1653.16
21	2.13.1	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps						
		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 880.71 / each	Rs 880.71
22	od134830/2019_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
23	2.15.2	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps						
		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 2813.77 / each	Rs 2813.77
24	od134974/2019_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
25	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	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 33.01 / metre	Rs 825.25
26	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 2760.54 / each	Rs 2760.54
27	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 268.04 / set	Rs 536.08
28	od135048/2019_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	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 139.00 / metre	Rs 3475.00
29	od136286/2019_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
30	od136298/2019_2020 Supply, installation, testing and commissioning of 24" Monitor for CCTV							
		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 8051.00 / no	Rs 8051.00
31	od136299/2019_2020							

SI No	Description	No	L	B	D	CF	Quantity	Remark
SITC Of NVR 8 Channel for CCTV								
		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 7203.00 / no							Rs 7203.00	
8 Main Building Ground Floor Fire Fighting works								
1	od254856/2019_2020 (Kannur) 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	17.000				17.000	
Total Quantity							17.000	per metre
Total Deducted Quantity							0.000	per metre
Net Total Quantity							17.000	per metre
Say 17.000 per metre @ Rs 1724.00 / per metre							Rs 29308.00	
2	od254565/2019_2020 (Kannur)4.1P: 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 squirell 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. 900lpm @ 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 100387.06 / each							Rs 100387.06	
3	od254566/2019_2020 (Kannur) 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 : 100mm dia pipe						
		1	65.000				65.000
	Total Quantity						65.000 per metre
	Total Deducted Quantity						0.000 per metre
	Net Total Quantity						65.000 per metre
	Say 65.000 per metre @ Rs 1437.02 / per metre						Rs 93406.30
4	od254567/2019_2020 (Kannur(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 : 100mm 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 10695.34 / each						Rs 21390.68
5	od254568/2019_2020 (Kannur) 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 6488.34 / each						Rs 6488.34
6	od254569/2019_2020 (Kannur) Providing & fixing 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 1857.34 / each						Rs 1857.34
7	od254570/2019_2020 (Kannur) 22 : Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.						
		1					1.000

	hanging chains / or fixed on wall & necessary supports to hang it on ceiling / or on wall.						
		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 510.00 / each						Rs 1020.00
12	od163569/2019_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.						
		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 510.00 / each						Rs 1020.00
13	od163570/2019_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.						
		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 713.00 / each						Rs 1426.00
14	od134479/2019_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. 						
		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 6065.06 / each						Rs 12130.12
15	od134482/2019_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						
		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 2105.00 / each						Rs 6315.00
16	od134483/2019_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.						
		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 5406.00 / each						Rs 10812.00
17	od134487/2019_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					0.000
	Total Quantity						0.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						0.000 each
	Say 0.000 each @ Rs 972.00 / each						Rs 0.00
18	od134489/2019_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	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 346.06 / metre						Rs 10381.80
19	od133918/2019_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
20	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 1623.69 / each	Rs 1623.69
21	od254878/2019_2020 Providing and fixing Fire Man axe as required with Test Certificate of 20,000 volts. Make : - ISI Approved.								
			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 1524.00 / each	Rs 3048.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
9 Contingencies									
Lump-Sum Total								Rs 64099.00	
Provision for GST payments (in %) @								12.0%	
Amount reserved for GST payments								776875.48	
Total								7250837.48	
Lumpsum for round off								0.00	
TOTAL Rs 7250837.48									
Rounded Total Rs 72,50,837									
Rupees Seventy Two Lakh Fifty Thousand Eight Hundred and Thirty Seven Only									

(Cost Index Applied for this estimate is 32.04%)