

TS Register No: 52/2020-2021

AS Register No:62/2020-2021

UP-GRADATION OF GOVT. ITI KATTAPPANA ON PAR WITH INTERNATIONAL STANDARDS PH-1,ANNEXURE-2- ELECTRICAL, ELV, FIRE & HVAC WORKS

Detailed Estimate

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

SI No	Description	No	L	B	D	CF	Quantity	Remark
1 ACADEMIC BLOCK GROUND FLOOR ELECTRICAL WORKS								
1	od249501/2019_2020 SITC of 10KVA UPS with 42Ah SMF 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 392860.83 / each	Rs 392860.83
2	od253878/2019_2020 SITC of SSB 1 (Kattappana) 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 - 100A 4P Isolator Outgoing - 32A 16kA 3P MCCB - 4 no, 40A 16kA 3P MCCB - 1 no, 25A 3P MCB - 4 no, 40A 3P MCB - 1 no, 32A 3P MCB - 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 102716.77 / each	Rs 102716.77
3	od250270/2019_2020 Supply of 95 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	140.000				140.000	

		Say 40.000 metre @ Rs 110.00 / metre					Rs 4400.00	
8	9.1.24 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 95 sq. mm (45mm)							
		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 716.78 / set					Rs 1433.56	
9	9.1.22 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2 X 50 sq. mm (35mm)							
		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 526.43 / set					Rs 1052.86	
10	9.1.32 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 10 sq. mm (25mm)							
		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 301.88 / set					Rs 1811.28	
11	7.1.2 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 35 sq. mm and upto 95 sq. mm							
		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 318.24 / metre						Rs 38188.80	
12	7.8.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		1	135.000					135.000	
		Total Quantity						135.000 metre	
		Total Deducted Quantity						0.000 metre	
		Net Total Quantity						135.000 metre	
		Say 135.000 metre @ Rs 31.23 / metre						Rs 4216.05	
13	7.8.2	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on cable tray as required.Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)							
		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 72.87 / metre						Rs 1821.75	
14	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	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 684.07 / metre						Rs 37623.85	
15	5.5	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. (but without 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 11221.66 / set					Rs 22443.32	
16	od250352/2019_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	36.000				36.000	
		Total Quantity					36.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					36.000 metre	
		Say 36.000 metre @ Rs 410.23 / metre					Rs 14768.28	
17	90.16.3.9 Supply and clamping the following size of strips on surface of wall/ parapet/ existing cable tray using clamps fabricated from 20 X 3 mm GI flat duly painted or heavy duty GI spacer saddles spacing of clamps not exceeding 1 m, making good the damages, colour washing etc. as required (for horizontal run)25 x 3 mm copper strip							
		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 436.05 / metre					Rs 8721.00	
18	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	
19	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	

23	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		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 3116.96 / each					Rs 6233.92	
24	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		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 3169.01 / each					Rs 19014.06	
25	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		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 991.90 / each					Rs 6943.30	
26	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		80				80.000	
		Total Quantity					80.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					80.000 each	
		Say 80.000 each @ Rs 257.27 / each					Rs 20581.60	
27	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						
		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 1040.97 / each						Rs 8327.76
28	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						
		108					108.000
	Total Quantity						108.000 point
	Total Deducted Quantity						0.000 point
	Net Total Quantity						108.000 point
	Say 108.000 point @ Rs 1125.73 / point						Rs 121578.84
29	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.						
		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 1203.06 / point						Rs 7218.36
30	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	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 166.56 / metre						Rs 74952.00

31	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	780.000				780.000	
		Total Quantity					780.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					780.000 metre	
		Say 780.000 metre @ Rs 203.73 / metre					Rs 158909.40	
32	1.14.7 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 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	1	220.000				220.000	
		Total Quantity					220.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					220.000 metre	
		Say 220.000 metre @ Rs 319.73 / metre					Rs 70340.60	
33	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	50					50.000	
		Total Quantity					50.000 point	
		Total Deducted Quantity					0.000 point	
		Net Total Quantity					50.000 point	
		Say 50.000 point @ Rs 617.15 / point					Rs 30857.50	
34	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	44					44.000	
		Total Quantity					44.000 each	
		Total Deducted Quantity					0.000 each	
		Net Total Quantity					44.000 each	
		Say 44.000 each @ Rs 124.92 / each					Rs 5496.48	

35	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		44				44.000	
		Total Quantity					44.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					44.000	each
		Say 44.000 each @ Rs 120.46 / each					Rs 5300.24	
36	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	
37	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.		35				35.000	
		Total Quantity					35.000	each
		Total Deducted Quantity					0.000	each
		Net Total Quantity					35.000	each
		Say 35.000 each @ Rs 428.28 / each					Rs 14989.80	
38	2.17 Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415volts "C" curve TP MCB complete with connections, testing and commissioning 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 1305.67 / each					Rs 1305.67	
39	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.							
		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 1457.36 / each						Rs 14573.60	
40	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)							
		36					36.000	
	Total Quantity						36.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						36.000	each
	Say 36.000 each @ Rs 260.24 / each						Rs 9368.64	
41	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)							
		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 383.67 / each						Rs 8440.74	
42	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 ampsmodular switch, connection etc. as required. (For light plugs to be used in non residentialbuildings).							
		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 465.46 / each						Rs 9309.20	
43	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.							
		50					50.000	

	Total Quantity							50.000 each
	Total Deducted Quantity							0.000 each
	Net Total Quantity							50.000 each
	Say 50.000 each @ Rs 603.76 / each						Rs 30188.00	
44	1.33 Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.							
		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 68.41 / each						Rs 684.10	
45	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	
46	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.							
		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 2163.73 / each						Rs 15146.11	
47	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							
		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 1869.15 / each				Rs 20560.65
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		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 455.55 / each				Rs 3644.40
49	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		55			55.000
		Total Quantity				55.000 each
		Total Deducted Quantity				0.000 each
		Net Total Quantity				55.000 each
		Say 55.000 each @ Rs 1186.12 / each				Rs 65236.60
50	od250250/2019_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 613.61 / each	Rs 6749.71
51	od250251/2019_2020 Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.							
		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 278.63 / each	Rs 5015.34
52	90.3.19.4 1200 mm 2X20W LED Lamp with box type fixture							
		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 1757.12 / each	Rs 10542.72
53	od249564/2019_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							
		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 2104.86 / each	Rs 50516.64
54	od249565/2019_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							
		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 2237.63 / each	Rs 22376.30
55	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									
		36								36.000
									Total Quantity	36.000 each
									Total Deducted Quantity	0.000 each
									Net Total Quantity	36.000 each
									Say 36.000 each @ Rs 2038.75 / each	Rs 73395.00
56	90.4.1 Supply and installation of suitable size MS rod type fan clamp in the RCC slab as per IS 732 as required.									
		35								35.000
									Total Quantity	35.000 each
									Total Deducted Quantity	0.000 each
									Net Total Quantity	35.000 each
									Say 35.000 each @ Rs 156.00 / each	Rs 5460.00
57	od249566/2019_2020 Supply and laying of one number of 10 SWG Copper wire on wall/ surface/ recessed conduit etc.									
		200								200.000
									Total Quantity	200.000 metre
									Total Deducted Quantity	0.000 metre
									Net Total Quantity	200.000 metre
									Say 200.000 metre @ Rs 57.95 / metre	Rs 11590.00
58	od253345/2019_2020 SITC of MDB : Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1									

	sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 125A TPN Isolator – 1 No. Outgoing: - 80A 25KA TP MCCB – 3 Nos, 50A 25KA TP MCCB - 3 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 117108.30 / each							Rs 117108.30	
Sl No	Description	No	L	B	D	CF	Quantity	Remark	
2 FRONT GATE WITH SECURITY CABIN M AND E WORKS									
1	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	
2	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	
3	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								
		50					50.000		
	Total Quantity							50.000 metre	
	Total Deducted Quantity							0.000 metre	
	Net Total Quantity							50.000 metre	

		Say 50.000 metre @ Rs 166.56 / metre					Rs 8328.00	
4	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						
		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 1125.73 / point					Rs 6754.38	
5	1.24.1	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch						
		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 124.92 / each					Rs 499.68	
6	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						
		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 120.46 / each					Rs 481.84	
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 required 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire						
		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 203.73 / metre					Rs 3055.95	

8	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 amp switch		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 169.53 / each					Rs 339.06	
9	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		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 227.53 / each					Rs 455.06	
10	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)		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 275.11 / each					Rs 550.22	
11	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)		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 383.67 / each					Rs 767.34	
12	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	
13	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 2783.71 / each						Rs 2783.71	
14	od249519/2019_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 2301.63 / each						Rs 4603.26	
15	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	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 306.34 / metre						Rs 9190.20	
16	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							

		32					32.000	
	Total Quantity						32.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						32.000	metre
	Say 32.000 metre @ Rs 26.77 / metre						Rs 856.64	
17	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							
		16					16.000	
	Total Quantity						16.000	metre
	Total Deducted Quantity						0.000	metre
	Net Total Quantity						16.000	metre
	Say 16.000 metre @ Rs 602.28 / metre						Rs 9636.48	
18	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							
		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 455.55 / each						Rs 455.55	
19	od252765/2019_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							
		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 2122.17 / each					Rs 4244.34	
20	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 37.18 / metre					Rs 557.70	
21	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	
22	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	
23	od250774/2019_2020 Supply and laying of one number of 10 SWG Copper wire including excavation and refilling 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 62.41 / metre					Rs 1248.20	

24	od249537/2019_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	2.000				2.000
	Total Quantity						2.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						2.000 metre
	Say 2.000 metre @ Rs 139.00 / metre						Rs 278.00
25	od250793/2019_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 388.66 / no						Rs 1554.64
26	od250794/2019_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 1518.05 / no						Rs 3036.10
27	od250795/2019_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 1140.54 / no						Rs 13686.48
28	od250796/2019_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 627.02 / no					Rs 2508.08
29	od250251/2019_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 278.63 / each					Rs 557.26
30	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	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 74.36 / metre					Rs 13384.80
31	od250784/2019_2020 Supply & Installation of Draw Boxes with termination						
		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 634.00 / each					Rs 2536.00
32	od250785/2019_2020 Supply of 4 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 108.00 / metre					Rs 3240.00

33	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	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 84.76 / metre						Rs 7628.40	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
3 EXTERNAL LIGHTING									
1	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.Upto 35 sq. mm		120				120.000		
		Total Quantity						120.000 metre	
		Total Deducted Quantity						0.000 metre	
		Net Total Quantity						120.000 metre	
		Say 120.000 metre @ Rs 306.34 / metre						Rs 36760.80	
2	od250785/2019_2020 Supply of 4 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	175.000			175.000		
		Total Quantity						175.000 metre	
		Total Deducted Quantity						0.000 metre	
		Net Total Quantity						175.000 metre	
		Say 175.000 metre @ Rs 108.00 / metre						Rs 18900.00	
3	od249440/2019_2020 SITC of 5 metre Hot dipped galvanised Octagonal pole in single section with 70mm top diameter, 130mm bottom diameter, 3mm sheet thickness, base plate dimensions of 200 x 200x 12 mm with 1.0 M long single arm bracket with 36W LED street light complete with all other accessories as required.		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 22702.02 / each						Rs 181616.16	
4	od250832/2019_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	
5	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	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 74.36 / metre						Rs 5948.80	
6	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)							
		1	2.000				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	
7	od249470/2019_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							
		30					30.000	
	Total Quantity						30.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						30.000 metre	
	Say 30.000 metre @ Rs 151.00 / metre						Rs 4530.00	
8	7.5.1							

	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm							
		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 26.77 / metre						Rs 214.16	
9	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		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 37.18 / metre						Rs 557.70	
10	od250774/2019_2020 Supply and laying of one number of 10 SWG Copper wire including excavation and refilling 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 62.41 / metre						Rs 1248.20	
11	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete withRCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.150 mm dia							
		8					8.000	
	Total Quantity						8.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						8.000 metre	
	Say 8.000 metre @ Rs 602.28 / metre						Rs 4818.24	
12	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 5460.63 / set						Rs 10921.26	
SI No	Description	No	L	B	D	CF	Quantity	Remark
4 ACADEMIC BLOCK FIRE PROTECTION WORK								
1	od249430/2019_2020 3 core cable,2.5sq mm,copper. Make:- ISI approved							
	for terrace pump	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 387.07 / metre						Rs 9676.75	
2	od252708/2019_2020 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 :Single headed Stainless steel							
		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 6628.18 / each						Rs 13256.36	
3	od252709/2019_2020 7.6 : 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 : 80 mm dia							
		1	3.000				3.000	
	Total Quantity						3.000 per metre	
	Total Deducted Quantity						0.000 per metre	
	Net Total Quantity						3.000 per metre	
	Say 3.000 per metre @ Rs 1199.19 / per metre						Rs 3597.57	
4	od252710/2019_2020 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
5	od252711/2019_2020 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	72.000				72.000	
	Total Quantity						72.000 per metre
	Total Deducted Quantity						0.000 per metre
	Net Total Quantity						72.000 per metre
	Say 72.000 per metre @ Rs 1617.53 / per metre						Rs 116462.16
6	od252712/2019_2020 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 2091.84 / each						Rs 2091.84
7	od252713/2019_2020 Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required. and making the necessary wiring upto 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 2052.36 / each						Rs 2052.36
8	od252714/2019_2020 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		
9	od252715/2019_2020 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								
		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 9301.53 / each					Rs 18603.06		
10	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		
11	od249465/2019_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 6243.00 / each					Rs 12486.00		
12	od249490/2019_2020 Providing and fixing Fire Man axe as required with Test Certificate of 20,000 volts.Make : - ISI Approved. 								
		2					2.000		

	Say 18.000 metre @ Rs 1869.17 / metre						Rs 33645.06	
20	od267537/2019_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 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 662372.00 / each						Rs 662372.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
5 ACADAMIC BUILDING HVAC SYSTEM								
1	od252568/2019_2020 Supplying & providing 2.00 TR Split A/C with high wall mounted unit, 3 Star rating,Copper Condensor Only. (Carrier HW Split AC). Drain pipe included.							
		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 52997.00 / each						Rs 52997.00	
2	od252569/2019_2020 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.							
		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 1327.00 / metre						Rs 21232.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark
6 DG SET, MSB PANEL WITH CHANGE OVER AND APFC PANEL - ELECTRICAL WORKS								
1	od250904/2019_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	30.000				30.000	
	Total Quantity						30.000 metre	
	Total Deducted Quantity						0.000 metre	

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		Net Total Quantity						30.000 metre
		Say 30.000 metre @ Rs 640.00 / metre						Rs 19200.00
2	od250905/2019_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							
		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 949.00 / metre						Rs 56940.00
3	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)							
		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 743.55 / set						Rs 2974.20
4	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 1/2 X 185 sq. mm (57mm)							
		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 1195.63 / set						Rs 7173.78
5	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	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 331.62 / metre					Rs 8290.50	
6	7.8.3 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 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)							
		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 90.71 / metre					Rs 5442.60	
7	5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
		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 12326.57 / set					Rs 49306.28	
8	90.16.3.9 Supply and clamping the following size of strips on surface of wall/ parapet/ existing cable tray using clamps fabricated from 20 X 3 mm GI flat duly painted or heavy duty GI spacer saddles spacing of clamps not exceeding 1 m, making good the damages, colour washing etc. as required (for horizontal run)25 x 3 mm copper strip							
		1	24.000				24.000	
		Total Quantity					24.000 metre	
		Total Deducted Quantity					0.000 metre	
		Net Total Quantity					24.000 metre	
		Say 24.000 metre @ Rs 436.05 / metre					Rs 10465.20	
9	od250352/2019_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	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 410.23 / metre	Rs 24613.80
10	od252644/2019_2020 Supply, installation, testing and commissioning of radiator cooled 160KVA 415V 50Hz 3 phase prime (actual) diesel generator set along with powder coated acoustic enclosure, AVM pads including cable end termination box with all associated equipments/ work as per specifications. Alternations shall have class F insulation 415V and p.f 0.8 at site, suitable for outdoor applications.								
			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 978731.00 / each	Rs 978731.00
11	od253343/2019_2020 SITC of 75KVA 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 with14swg and 16swg of CRCA M.S. sheet, powder coated, bus-bar chamber, outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket, hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: 250A TPN Isolator. Outgoing: 50A 25kA 3P MCCB - 3 nos, 32A 25 kA 3P MCCB - 3 nos. with following capacitors in steps: 15 kVA - 1 no, 25 kVA - 1 nos, 20 kVA - 1 no, 5 kVA - 3 nos including capacitor duty contactors.								
			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 180178.78 / each	Rs 180178.78
12	od253872/2019_2020 SITC of MSB with Change Over (Kattappana) 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 - 400A 50kA 4P MCCB with microprocessor control & 315A 4P Isolator Outgoing - 160A 36kA 3P MCCB - 3 no, 120A 36kA 3P MCCB - 1 no, 160A 4P 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 270239.89 / each						Rs 270239.89	
SI No	Description	No	L	B	D	CF	Quantity	Remark
7 ELV SYSTEM								
1	od250878/2019_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	od250880/2019_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	
3	od250881/2019_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	od250882/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors 									
			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 85.00 / metre	Rs 17000.00
5	od250883/2019_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									
			9							9.000
									Total Quantity	9.000 each
									Total Deducted Quantity	0.000 each
									Net Total Quantity	9.000 each
									Say 9.000 each @ Rs 1361.00 / each	Rs 12249.00
6	od250884/2019_2020 Supply, installation, testing and commissioning of LAN 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 319.00 / each	Rs 3190.00
7	od250885/2019_2020 Supply & Installation of telephone cable 10 pair through PVC conduit.									
			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 66.00 / metre	Rs 1320.00
8	od250887/2019_2020 Supply,Installation, Testing & commissioning of Telephone of approved makes including all other									

	accessories for connection.						
		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 1141.00 / each						Rs 5705.00
9	od250889/2019_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
10	od252411/2019_2020 Supply, installation, testing and commissioning of 24 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 26881.00 / each						Rs 26881.00
11	od252412/2019_2020 Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch Panel.						
		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 1600.00 / no						Rs 1600.00
12	od250927/2019_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
13	od250892/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M									
			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 234.00 / no	Rs 4680.00
14	od250893/2019_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 no
									Total Deducted Quantity	0.000 no
									Net Total Quantity	5.000 no
									Say 5.000 no @ Rs 8968.00 / no	Rs 44840.00
15	od250894/2019_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 no
									Total Deducted Quantity	0.000 no
									Net Total Quantity	24.000 no
									Say 24.000 no @ Rs 6962.00 / no	Rs 167088.00
16	od250938/2019_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.									
			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 10299.00 / each	Rs 72093.00

17	od250895/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.						
		1	160.000				160.000
	Total Quantity						160.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						160.000 no
	Say 160.000 no @ Rs 78.00 / no						Rs 12480.00
18	od250896/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.						
		40					40.000
	Total Quantity						40.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						40.000 no
	Say 40.000 no @ Rs 220.00 / no						Rs 8800.00
19	od250897/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors						
		3					3.000
	Total Quantity						3.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						3.000 no
	Say 3.000 no @ Rs 2025.00 / no						Rs 6075.00
20	od250898/2019_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
21	od250899/2019_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	
22	od250900/2019_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 no	
		Total Deducted Quantity						0.000 no	
		Net Total Quantity						1.000 no	
		Say 1.000 no @ Rs 7611.00 / no						Rs 7611.00	
23	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	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 28.25 / metre						Rs 2260.00	
24	1.24.6 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.Telephone socket outlet								
		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 142.76 / each						Rs 713.80	
25	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)								
		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 260.24 / each						Rs 1301.20	
26	1.53.1								

	Supplying and drawn of UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required 1 run of Cable							
		1	670.000				670.000	
	Total Quantity						670.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						670.000 metre	
	Say 670.000 metre @ Rs 50.56 / metre						Rs 33875.20	
27	od250945/2019_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	
28	od252449/2019_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
8 EXISTING CLASSROOM CONVERTED TO SMART CLASSROOM - ELECTRICAL AND ELV WORKS								
1	od252449/2019_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	
2	od250880/2019_2020 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch Panel.							

		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 685.00 / each						Rs 2055.00	
3	od252468/2019_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) 							
		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 7658.00 / each						Rs 76580.00	
4	od250883/2019_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							
		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 1361.00 / each						Rs 13610.00	
5	od250884/2019_2020 Supply, installation, testing and commissioning of LAN 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 319.00 / each						Rs 3190.00	
6	od250945/2019_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
7	od252469/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors								
		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 2044.00 / each	Rs 4088.00
8	od252470/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.								
		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 66.00 / metre	Rs 15840.00
9	od252471/2019_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.								
		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 5957.00 / each	Rs 59570.00
10	od252472/2019_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
11	od252474/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port Network Switch to provide								

	networks and internet on class room etc.						
		8					8.000
	Total Quantity						8.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						8.000 no
	Say 8.000 no @ Rs 4130.00 / no						Rs 33040.00
12	od252475/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.						
		10					10.000
	Total Quantity						10.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						10.000 set
	Say 10.000 set @ Rs 29016.00 / set						Rs 290160.00
13	od252476/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.						
		10					10.000
	Total Quantity						10.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						10.000 no
	Say 10.000 no @ Rs 40120.00 / no						Rs 401200.00
14	od250899/2019_2020 Supply, installation, testing and commissioning of 8 port PoE switch						
		3					3.000
	Total Quantity						3.000 no
	Total Deducted Quantity						0.000 no
	Net Total Quantity						3.000 no
	Say 3.000 no @ Rs 6250.00 / no						Rs 18750.00
15	od250898/2019_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
16	od252480/2019_2020 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	
17	od249479/2019_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 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 28325.00 / no						Rs 28325.00	
18	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	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 166.56 / metre						Rs 26649.60	
19	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	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 203.73 / metre						Rs 32596.80	
20	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	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 84.76 / metre						Rs 25428.00	
21	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							
		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 124.92 / each						Rs 2498.40	
22	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							
		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 120.46 / each						Rs 2409.20	
23	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)							
		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 260.24 / each						Rs 2602.40	
24	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)							
		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 383.67 / each						Rs 3836.70	
25	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.							
		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 603.76 / each						Rs 6037.60	
26	1.53.1 Supplying and drawn of UTP 4 pair CAT 6 LAN cable in the existing surface/recessed steel/PVC conduit as required1 run of Cable							
		1	640.000				640.000	
	Total Quantity						640.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						640.000 metre	
	Say 640.000 metre @ Rs 50.56 / metre						Rs 32358.40	
27	od250882/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connectors 							
		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 85.00 / metre						Rs 10200.00	
28	od252483/2019_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 no	

							Total Deducted Quantity		0.000 no
							Net Total Quantity		1.000 no
							Say 1.000 no @ Rs 6450.00 / no		Rs 6450.00
SI No	Description	No	L	B	D	CF	Quantity	Remark	
9 CONTINGENCIES									
Lump-Sum Total							Rs 66391.00		
Provision for GST payments (in %) @							12.0%		
Amount reserved for GST payments							804658.98		
Total							7510150.98		
Lumpsum for round off							0.00		
							TOTAL Rs 7510150.98		
							Rounded Total Rs 75,10,151		
Rupees Seventy Five Lakh Ten Thousand One Hundred and Fifty One Only									

(Cost Index Applied for this estimate is 48.71%)

Other Engineering Organisations

PRICE