

Government eProcurement System Created By: PALLIPPATTU RAVI HARI Created Date/Time: 21-Oct-2022 11:21 AM Tender Title: Miscellaneous Electrical works at Portblair Airport Tender ID: 2022_AAI_128584_1															
Tender Inviting Authority: Asst.Gen.Manager (E-E), VSI Airport, Port Blair															
Name of Work: Miscellaneous Electrical Works at VSI Airport, Port Blair															
Contract No: 2022_AAI_128584_1															
SCHEDULE OF WORK / ITEM(S)															
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate		M/S DURGA SUPPLY AGENCIES(GSTN-21ADAPP6465D1ZV)		SHREE GOURI ELECTRIC ENTERPRISE(GSTN-19ADDPB4683J1ZE)		Tropical Refrigeration(GSTN-35ACZPJ3600Q1ZZ)		G K Construction(GSTN-NA)		NAVJEEVAN ENTERPRISES(GSTN-NA)	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	Supply of 4 core 25 Sq.mm XLPE insulated PVC inner sheathed, armoured aluminium conductor underground power cable of 1.1 KV grade of conforming to IS:7098(Part-I) 1988, with upto date amendments etc., complete as required.	250.00	Mtr	320.00	80000.00	400.00	100000.00	200.00	50000.00	350.00	87500.00	244.00	61000.00	220.00	55000.00
2.00	Supply of 3.5 core 50 Sq.mm XLPE insulated PVC inner sheathed, armoured aluminium conductor underground power cable of 1.1 KV grade of conforming to IS:7098(Part-I) 1988, with upto date amendments etc., complete as required.	250.00	Mtr	491.00	122750.00	560.00	140000.00	300.00	75000.00	540.00	135000.00	374.00	93500.00	350.00	87500.00
3.00	Supply of 3.5 core 150 Sq.mm XLPE insulated PVC inner sheathed, armoured aluminium conductor underground power cable of 1.1 KV grade of conforming to IS:7098(Part-I) 1988, with upto date amendments etc., complete as required.	250.00	Mtr	1194.00	298500.00	1350.00	337500.00	700.00	175000.00	1150.00	287500.00	910.00	227500.00	850.00	212500.00
4.00	Supply of 3.5 core 240 Sq.mm XLPE insulated PVC inner sheathed, armoured aluminium conductor underground power cable of 1.1 KV grade of conforming to IS:7098(Part-I) 1988, with upto date amendments etc., complete as required.	250.00	Mtr	1923.00	480750.00	2000.00	500000.00	1200.00	300000.00	1850.00	462500.00	1645.00	411250.00	1500.00	375000.00
5.00	Supply of 3core 2.5 sq.mm of 1.1kv grade FR PVC multicore copper conductor XLPE insulated and PVC sheathed unarmoured Power cable as per IS : 694 with upto date amendments.	500.00	Mtr	78.00	39000.00	100.00	50000.00	200.00	100000.00	130.00	65000.00	144.00	72000.00	100.00	50000.00
6.00	Supply of 4core 4 sq.mm of 1.1kv grade FR PVC multicore copper conductor XLPE insulated and PVC sheathed unarmoured Power cable as per IS : 694 with upto date amendments.	500.00	Mtr	155.00	77500.00	150.00	75000.00	300.00	150000.00	250.00	125000.00	258.00	129000.00	200.00	100000.00
7.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required – Up to 35 Sq.mm	350.00	Mtr	21.00	7350.00	15.00	5250.00	20.00	7000.00	70.00	24500.00	25.00	8750.00	25.00	8750.00

8.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required – above 35 sq.mm and up to 95 Sq.mm	250.00	Mtr	34.00	8500.00	25.00	6250.00	30.00	7500.00	90.00	22500.00	25.00	6250.00	30.00	7500.00
9.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required – above 95 sq.mm and up to 185 Sq.mm	250.00	Mtr	47.00	11750.00	40.00	10000.00	50.00	12500.00	150.00	37500.00	40.00	10000.00	50.00	12500.00
10.00	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 etc as required.- up to35 sq.mm (clamped with 1mmthick saddle)	300.00	Mtr	35.00	10500.00	30.00	9000.00	40.00	12000.00	75.00	22500.00	90.00	27000.00	80.00	24000.00
11.00	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 etc as required.- above 35 sq.mm and up to 95 Sq.mm (clamped with 25 x3 mm thick MS flat clamp)	250.00	Mtr	92.00	23000.00	80.00	20000.00	80.00	20000.00	150.00	37500.00	90.00	22500.00	100.00	25000.00
12.00	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 etc as required.- above 95 sq.mm and up to 185 Sq.mm (clamped with 25/40 x 3 mm thick MS flat clamp)	250.00	Mtr	108.00	27000.00	90.00	22500.00	125.00	31250.00	225.00	56250.00	90.00	22500.00	110.00	27500.00
13.00	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.- up to 35 sq.mm (clamped with 1mmthick saddle)	300.00	Mtr	30.00	9000.00	20.00	6000.00	30.00	9000.00	75.00	22500.00	90.00	27000.00	120.00	36000.00
14.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.- above 35 sq.mm and up to 95 Sq.mm (clamped with 25 x3 mm thick MS flat clamp)	250.00	Meter	66.00	16500.00	50.00	12500.00	60.00	15000.00	75.00	18750.00	90.00	22500.00	140.00	35000.00
15.00	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 up to 185 Sq.mm (clamped with 25/40 x 3 mm thick MS flat clamp)	250.00	Mtr	82.00	20500.00	70.00	17500.00	80.00	20000.00	75.00	18750.00	90.00	22500.00	150.00	37500.00
16.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC/HDPE pipe as required. – up to 35 sq.mm	300.00	Mtr	28.00	8400.00	20.00	6000.00	20.00	6000.00	75.00	22500.00	40.00	12000.00	70.00	21000.00
17.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC/HDPE pipe as required. – above 35 sq.mm and up to 95 Sq.mm	250.00	Mtr	43.00	10750.00	35.00	8750.00	40.00	10000.00	80.00	20000.00	40.00	10000.00	80.00	20000.00
18.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL/DWC/HDPE pipe as required. – above 95 sq.mm and up to 185 Sq.mm	250.00	Mtr	58.00	14500.00	50.00	12500.00	60.00	15000.00	90.00	22500.00	40.00	10000.00	120.00	30000.00

19.00	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)	20.00	Set	315.00	6300.00	250.00	5000.00	300.00	6000.00	1850.00	37000.00	125.00	2500.00	70.00	1400.00
20.00	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.- 31/2 x 50 sq.mm (35mm)	10.00	Set	421.00	4210.00	350.00	3500.00	400.00	4000.00	2500.00	25000.00	280.00	2800.00	350.00	3500.00
21.00	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.- 31/2 x 150 sq.mm (50mm)	8.00	Set	691.00	5528.00	500.00	4000.00	700.00	5600.00	4000.00	32000.00	300.00	2400.00	400.00	3200.00
22.00	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.- 31/2 x 240 sq.mm (62mm)	4.00	Set	1075.00	4300.00	900.00	3600.00	1300.00	5200.00	5200.00	20800.00	300.00	1200.00	450.00	1800.00
23.00	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. – 31/2 x 150 sq.mm	2.00	Set	4650.00	9300.00	3500.00	7000.00	3500.00	7000.00	12500.00	25000.00	7500.00	15000.00	4500.00	9000.00
24.00	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. – 31/2 x 150 sq.mm	2.00	Set	6827.00	13654.00	5000.00	10000.00	3500.00	7000.00	12500.00	25000.00	7500.00	15000.00	5500.00	11000.00
25.00	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.	5.00	Job	10470.00	52350.00	15000.00	75000.00	16000.00	80000.00	25000.00	125000.00	15500.00	77500.00	15000.00	75000.00
26.00	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.	5.00	Job	5536.00	27680.00	9000.00	45000.00	9500.00	47500.00	5750.00	28750.00	13500.00	67500.00	7000.00	35000.00
27.00	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	5.00	Job	4733.00	23665.00	9000.00	45000.00	9000.00	45000.00	15500.00	77500.00	6000.00	30000.00	6000.00	30000.00
28.00	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	50.00	Mtr	1082.00	54100.00	1200.00	60000.00	1750.00	87500.00	125.00	6250.00	1850.00	92500.00	1500.00	75000.00

29.00	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	50.00	Mtr	428.00	21400.00	750.00	37500.00	700.00	35000.00	300.00	15000.00	580.00	29000.00	1600.00	80000.00
30.00	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	100.00	Mtr	896.00	89600.00	800.00	80000.00	1300.00	130000.00	850.00	85000.00	1400.00	140000.00	1300.00	130000.00
31.00	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	100.00	Mtr	138.00	13800.00	200.00	20000.00	175.00	17500.00	450.00	45000.00	180.00	18000.00	290.00	29000.00
32.00	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 steel 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	100.00	Each	1509.00	150900.00	1300.00	130000.00	1800.00	180000.00	850.00	85000.00	950.00	95000.00	800.00	80000.00
33.00	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required -2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	100.00	Mtr	330.00	33000.00	300.00	30000.00	350.00	35000.00	1250.00	125000.00	125.00	12500.00	160.00	16000.00
34.00	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required -2 X 4 sq. mm + 1 X 4 sq. mm earth wire	100.00	Mtr	398.00	39800.00	380.00	38000.00	450.00	45000.00	1450.00	145000.00	158.00	15800.00	190.00	19000.00
35.00	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required -4X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	100.00	Mtr	487.00	48700.00	450.00	45000.00	550.00	55000.00	1950.00	195000.00	215.00	21500.00	260.00	26000.00
36.00	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required -4X 4 sq. mm + 2 X 4 sq. mm earth wire	100.00	Mtr	618.00	61800.00	600.00	60000.00	700.00	70000.00	3000.00	300000.00	318.00	31800.00	280.00	28000.00
37.00	Supplying and fixing following size/ modules PVC box along with modular base & cover plate for modular switches in surface/ recess etc. as required.- 1 or 2 Module (75mmX75mm)	50.00	Each	490.00	24500.00	400.00	20000.00	225.00	11250.00	350.00	17500.00	77.00	3850.00	160.00	8000.00
38.00	Supplying and fixing following size/ modules PVC box along with modular base & cover plate for modular switches in surface/ recess etc. as required.- 3 Module (100mmX75mm)	50.00	Each	533.00	26650.00	440.00	22000.00	250.00	12500.00	550.00	27500.00	103.00	5150.00	220.00	11000.00
39.00	Supplying and fixing following size/ modules PVC box along with modular base & cover plate for modular switches in surface/ recess etc. as required.- 4 Module (125mmX75mm)	50.00	Each	558.00	27900.00	440.00	22000.00	275.00	13750.00	1250.00	62500.00	122.00	6100.00	250.00	12500.00

40.00	Supplying and fixing following size/ modules PVC box along with modular base & cover plate for modular switches in surface/ recess etc. as required.- 6 Module (200mmX75mm)	50.00	Each	710.00	35500.00	520.00	26000.00	325.00	16250.00	1750.00	87500.00	169.00	8450.00	300.00	15000.00
41.00	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 A Switch	100.00	Each	124.00	12400.00	120.00	12000.00	100.00	10000.00	65.00	6500.00	22.00	2200.00	100.00	10000.00
42.00	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 A Switch	100.00	Each	166.00	16600.00	230.00	23000.00	140.00	14000.00	225.00	22500.00	70.00	7000.00	240.00	24000.00
43.00	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 A socket outlet	100.00	Each	139.00	13900.00	130.00	13000.00	120.00	12000.00	150.00	15000.00	60.00	6000.00	180.00	18000.00
44.00	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 A socket outlet	100.00	Each	235.00	23500.00	220.00	22000.00	180.00	18000.00	350.00	35000.00	98.00	9800.00	320.00	32000.00
45.00	Supplying and fixing of 20 mm of medium FRLS PVC conduit along with accessories in surface/recess including clamping in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	500.00	Mtr	120.00	60000.00	140.00	70000.00	150.00	75000.00	75.00	37500.00	38.00	19000.00	35.00	17500.00
46.00	Supplying and fixing of 25 mm of medium FRLS PVC conduit along with accessories in surface/recess including clamping in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	500.00	Mtr	132.00	66000.00	175.00	87500.00	175.00	87500.00	95.00	47500.00	55.00	27500.00	40.00	20000.00
47.00	Supply of 450mm sweep wall mount fan complete with all accessories such as brackets, fixing arrangement etc. complete as required.	15.00	Each	2850.00	42750.00	2800.00	42000.00	2800.00	42000.00	4200.00	63000.00	3925.00	58875.00	5500.00	82500.00
48.00	Installation, testing and commissioning of wall mount fan including fixing the fan on wall and wiring with 1.5 sq. mm FRLS PVC insulated, copper conductor, three core cable etc. as required.	15.00	Job	215.00	3225.00	180.00	2700.00	300.00	4500.00	100.00	1500.00	100.00	1500.00	50.00	750.00
49.00	Supply of 450mm sweep pedestal fan complete with all accessories as required.	15.00	Each	4877.00	73155.00	4800.00	72000.00	3800.00	57000.00	6000.00	90000.00	4250.00	63750.00	6000.00	90000.00
50.00	Supply of 240 V, 6A , 6 nos 3 pin-universal socket spike guard/power strip complete with inbuilt fuse protection.	20.00	Each	580.00	11600.00	550.00	11000.00	700.00	14000.00	700.00	14000.00	450.00	9000.00	700.00	14000.00
51.00	Supply & laying of Cat 6 / UTP cable in the existing raceway/cable tray/ conduit etc as required	5000.00	Mtr	86.00	430000.00	35.00	175000.00	60.00	300000.00	70.00	350000.00	38.00	190000.00	25.00	125000.00
52.00	Supply, Installation, Testing and Commissioning of CAT 6 A information outlet sockets including necessary surface mounted box & faceplate etc, as required.	60.00	Each	1224.00	73440.00	430.00	25800.00	450.00	27000.00	950.00	57000.00	240.00	14400.00	400.00	24000.00

53.00	Supplying and fixing 6 way, double door, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	5.00	Each	2031.00	10155.00	2200.00	11000.00	2500.00	12500.00	5500.00	27500.00	1450.00	7250.00	1600.00	8000.00
54.00	Supplying and fixing 8 way, double door, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	5.00	Each	2129.00	10645.00	2500.00	12500.00	3000.00	15000.00	7500.00	37500.00	1780.00	8900.00	1900.00	9500.00
55.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker of single pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	15.00	Each	308.00	4620.00	250.00	3750.00	200.00	3000.00	180.00	2700.00	180.00	2700.00	180.00	2700.00
56.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker of double pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	15.00	Each	790.00	11850.00	700.00	10500.00	600.00	9000.00	950.00	14250.00	650.00	9750.00	650.00	9750.00
57.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker of triple pole in the existing MCB DB complete with connections, testing and commissioning etc. as required.	15.00	Each	1255.00	18825.00	1200.00	18000.00	4200.00	63000.00	1200.00	18000.00	950.00	14250.00	1300.00	19500.00
58.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker of four poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	15.00	Each	1660.00	24900.00	1500.00	22500.00	2200.00	33000.00	1500.00	22500.00	1480.00	22200.00	1600.00	24000.00
59.00	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	30.00	Each	1398.00	41940.00	1300.00	39000.00	1200.00	36000.00	1250.00	37500.00	480.00	14400.00	1100.00	33000.00
60.00	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve FP MCB complete with connections, testing and commissioning etc. as required.	10.00	Each	2268.00	22680.00	2200.00	22000.00	2500.00	25000.00	2500.00	25000.00	480.00	4800.00	1300.00	13000.00
61.00	Supplying, installation, testing & commissioning of cubicle panel box with 1.6mm thick sheet steel enclosure (IP42) duly powder coated on wall including provision and fixing of 250 A Four Pole MCCB 36kA SC for 1 sec capacity, with thermo magnetic release and terminal spreaders, rotary handles in the cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.	2.00	Job	38229.00	76458.00	38000.00	76000.00	25000.00	50000.00	47500.00	95000.00	28000.00	56000.00	45000.00	90000.00

62.00	Supplying and installing following size of perforated painted with powder coating 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 62.5 mm depth X 2.0 mm thickness	200.00	Mtr	532.00	106400.00	750.00	150000.00	1300.00	260000.00	1200.00	240000.00	860.00	172000.00	700.00	140000.00
63.00	Supplying and installing following size of perforated painted with powder coating 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.- 450 mm width X 62.5 mm depth X 2.0 mm	200.00	Mtr	687.00	137400.00	950.00	190000.00	1450.00	290000.00	1850.00	370000.00	1160.00	232000.00	900.00	180000.00
64.00	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.- 750 mm width X 62.5 mm depth X 2.0 mm thickness	200.00	Mtr	913.00	182600.00	1270.00	254000.00	1500.00	300000.00	2750.00	550000.00	1750.00	350000.00	1370.00	274000.00
65.00	Supplying and installing following size of perforated painted with powder coating 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.- 900 mm width X 62.5 mm depth X 2.0 mm thickness	200.00	Mtr	1031.00	206200.00	1440.00	288000.00	1600.00	320000.00	3600.00	720000.00	2050.00	410000.00	1600.00	320000.00
66.00	Supplying and installing following size of perforated painted with powder coating M.S. cable tray bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.- 300 mm width X 62.5 mm depth X 2.0 mm thickness	20.00	Each	1461.00	29220.00	2000.00	40000.00	2200.00	44000.00	3700.00	74000.00	2150.00	43000.00	1300.00	26000.00
67.00	Supplying and installing following size of perforated painted with powder coating M.S. cable tray bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.- 450 mm width X 62.5 mm depth X 2.0 mm thickness	20.00	Each	1995.00	39900.00	2500.00	50000.00	2600.00	52000.00	5250.00	105000.00	2890.00	57800.00	1680.00	33600.00
68.00	Supplying and installing following size of perforated painted with powder coating M.S. cable tray bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.- 750 mm width X 62.5 mm depth X 2.0 mm thickness	20.00	Each	2945.00	58900.00	3700.00	74000.00	2700.00	54000.00	8100.00	162000.00	4670.00	93400.00	2500.00	50000.00

69.00	Supplying and installing following size of perforated painted with powder coating M.S. cable tray bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.- 900 mm width X 62.5 mm depth X 2.0 mm thickness	20.00	Each	3402.00	68040.00	4000.00	80000.00	2800.00	56000.00	11500.00	230000.00	5240.00	104800.00	2900.00	58000.00
70.00	Providing and laying in position cement concrete 1:3:6 (1 cement : 2 coarse sand : 6 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc. including form work etc as required	10.00	M3	6680.00	66800.00	8680.00	86800.00	8000.00	80000.00	12750.00	127500.00	12000.00	120000.00	9000.00	90000.00
71.00	Providing, laying and fixing following 80 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	100.00	Mtr	1042.00	104200.00	450.00	45000.00	1600.00	160000.00	1250.00	125000.00	945.00	94500.00	1000.00	100000.00
72.00	Providing, laying and fixing following 100 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	50.00	Mtr	1460.00	73000.00	1890.00	94500.00	2200.00	110000.00	1600.00	80000.00	1350.00	67500.00	1100.00	55000.00
73.00	Providing, laying and fixing following 150 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	50.00	Mtr	2221.00	111050.00	2880.00	144000.00	2300.00	115000.00	2500.00	125000.00	1990.00	99500.00	1300.00	65000.00
74.00	Supplying and laying of 50 mm nominal dia DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 16205 complete with fitting and cutting, jointing etc, direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	500.00	Mtr	207.00	103500.00	290.00	145000.00	250.00	125000.00	95.00	47500.00	175.00	87500.00	120.00	60000.00
75.00	Supplying and laying of 90 mm nominal dia DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 16205 complete with fitting and cutting, jointing etc, direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	500.00	Mtr	278.00	139000.00	270.00	135000.00	350.00	175000.00	275.00	137500.00	280.00	140000.00	180.00	90000.00
76.00	Supplying and laying of 160 mm nominal dia DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 16205 complete with fitting and cutting, jointing etc, direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	500.00	Mtr	409.00	204500.00	350.00	175000.00	400.00	200000.00	550.00	275000.00	435.00	217500.00	280.00	140000.00
77.00	Excavation for cable trenches of depth upto 1.2 m in soft soil including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.	10.00	M3	295.00	2950.00	360.00	3600.00	800.00	8000.00	130.00	1300.00	600.00	6000.00	250.00	2500.00

78.00	Supply, installation testing commissioning of Flexible LED light strip minimum 9W per running meter strip along with transparent housing unit/rail,IP 20 CCT:2500K-3000K complete with driver and all accessories as required. (Bajaj .nxt 75W PROFESSIONAL LED STRIP IP20 WW+ driver or Havells FLEXISTRIP5MIP2024V/2ALED865MOD V1+driver or equivalent)	750.00	Mtr	871.00	653250.00	1150.00	862500.00	300.00	225000.00	350.00	262500.00	362.00	271500.00	250.00	187500.00
79.00	Supply, installation, testing & commissioning of LED Spike Light, CCT 3000K, CRI>70, IP-65 with lamp, and other accessories etc. complete as required. (Make:- Bajaj CAT No. BGSBL 9W LED WW, Havells cat. no:LYCUSSPS9WLED730 or equivalent of any of above)	20.00	Each	5805.00	116100.00	6500.00	130000.00	3500.00	70000.00	5250.00	105000.00	2760.00	55200.00	2100.00	42000.00
80.00	Supply of Recessed Mounted spot downlighter LED Light fixture with LEDs of approved make as per specifications, having lumen efficacy of >=100 lumens per watt and lumen maintenance of 70% at the end of 50,000 burning hours, CCT of 3000-4000K & System Lumens of > 1000 Lumens,CRI>80, inbuilt driver suitable for 240V/50Hz supply having voltage operating range of 140V-270Vac, PF>0.95, Surge Protection of > 2.5KV, THD must be <15%, overall efficiency of driver shall be >85%.(Philips DN590B M LED10S-6500 PSU WH MB or KLite Platina Mini Series Cat no 3334 or equivalent)	80.00	Each	3215.00	257200.00	3697.00	295760.00	1000.00	80000.00	5250.00	420000.00	660.00	52800.00	2800.00	224000.00
81.00	Supply of LED Flood light fixture having housing made from pressure die cast aluminium, toughened glass cover to ensure IP65 protection. LED of approved makes having lumen efficacy of >=110 lumens per watt system Lumens > 10000 Lumens, CRI>70, inbuilt driver/surge protection, PF>0.95 etc. complete as per specifications..(BAJAJ PRAZE F 120L WH NB-A5 TG SD or PHILIPS BY325P LED130S CW PSU GR FG WB or HAVELLS JETAIRISFLS120WLED757ARWB or equivalent)	20.00	Each	12025.00	240500.00	13800.00	276000.00	5000.00	100000.00	3500.00	70000.00	3960.00	79200.00	7200.00	144000.00
82.00	Supply, installation, testing and commissioning of track Mounted spotlight LED Light fixture with LEDs of approved make as per specifications along with 1 metre track, having lumen efficacy of >=100 lumens per watt and lumen maintenance of 70% at the end of 50,000 burning hours, CCT of 4000K & System Lumens of > 1200 Lumens,CRI>80, inbuilt driver suitable for 240V/50Hz supply having voltage operating range of 140V-270Vac, PF>0.95, Surge Protection of > 2KV, THD must be <15% and overall efficiency of driver shall be >85%.(Philips ST030T LED12/830 14W 220-240V MB WH or Havells UNECOTRACKLIGHT TS 15WLED830S38WHT)	30.00	Each	1935.00	58050.00	2200.00	66000.00	5000.00	150000.00	1800.00	54000.00	3100.00	93000.00	1140.00	34200.00

83.00	Supply of 4ft LED batten tube light for surface/pendant applications, with lamp, connector, and other accessories etc. complete as required. (Make:- Bajaj: BCLAB 20W LED P or Philips BN308C LED60S-6500 L120 PSU WH or equivalent of any of above).	100.00	Each	919.00	91900.00	1092.00	109200.00	300.00	30000.00	450.00	45000.00	264.00	26400.00	1000.00	100000.00
84.00	Installation, testing and commissioning of pre-wired, LED fittings of all types, complete with all accessories and anchor bolts, thread rods etc. directly on surface/ceiling/ wall/structure, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor,three core cable etc. as required.	250.00	Each	177.00	44250.00	230.00	57500.00	80.00	20000.00	100.00	25000.00	100.00	25000.00	100.00	25000.00
85.00	Supply, Installation, Testing and Commissioning of control panel cubicle type, starter panel made out of 16 SWG CRCA sheet steel, totally enclosed, IP 42, protection, wall mounting type, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply interconnections with 2.5 sq.mm size of FRLS copper wire, control circuit, auto/ manual selector switch and having following component and accessories. Cable entry provision shall have both Top/Bottom option i. Wiring for micro switch for stopping the fan when fire damper closes. ii.All outgoing feeders shall be provided with Stop / Manual /Auto selector switch to facilitate remote operation through BAS. All starters shall be provided with potential free Contact. iii. Suitable rating TP MPCB with over load and short circuit protection including separate neutral link. iv.Digital electronic VAF meter with inbuilt selector switch and 3No. Suitable rating CL.1 CTs – 1 set v. Phase indicating light through 2 amps SP MCB -2 sets vi. ON/OFF/Trip indication with MCB protection for motors – 2 set vii. Start / Stop push button – 2 set viii. Power / control terminal as required – 2 set ix. All starters shall have provision of separate incoming and outgoing cable x. Power contactor for Star Delta starter of following suitable rating – 2 set xi. Incoming-32A FP MCB-2 nos xii. Outgoing -15 HP star-delta starter with suitable contactors, auxiliary contacts, over load relays etc.- 2 nos	3.00	Job	156600.00	469800.00	100090.00	300270.00	70000.00	210000.00	95000.00	285000.00	85000.00	255000.00	130000.00	390000.00

86.00	Supply, Installation, Testing and Commissioning of control panel cubicle type, starter panel made out of 16 SWG CRCA sheet steel, totally enclosed, IP 42, protection, wall mounting type, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply interconnections with 2.5 sq.mm size of FRLS copper wire, control circuit, auto/ manual selector switch and having following component and accessories. Cable entry provision shall have both Top/Bottom option i. Wiring for micro switch for stopping the fan when fire damper closes. ii.All outgoing feeders shall be provided with Stop / Manual /Auto selector switch to facilitate remote operation through BAS. All starters shall be provided with potential free Contact. iii. Suitable rating TP MPCB with over load and short circuit protection including separate neutral link. iv.Digital electronic VAF meter with inbuilt selector switch and 3No. Suitable rating CL.1 CTs – 1 set v. Phase indicating light through 2 amps SP MCB -6 sets vi. ON/OFF/Trip indication with MCB protection for motors – 6 set vii. Start / Stop push button – 6 set viii. Power / control terminal as required – 6 set ix. All starters shall have provision of separate incoming and outgoing cable x. Power contactor for Star Delta starter of following suitable rating – 6 set xi. Incoming-32A FP MCB-6 nos xii. Outgoing -15 HP star-delta starter with suitable contactors, auxiliary contacts, over load relays etc.- 6 nos	1.00	Job	399040.00	399040.00	550000.00	550000.00	160000.00	160000.00	202800.00	202800.00	260000.00	260000.00	380000.00	380000.00
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87.00	Supply, Installation, Testing and Commissioning of control panel cubicle type, starter panel made out of 16 SWG CRCA sheet steel, totally enclosed, IP 42, protection, wall mounting type, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply interconnections with 2.5 sq.mm size of FRLS copper wire, control circuit, auto/ manual selector switch and having following component and accessories. Cable entry provision shall have both Top/Bottom option i. Wiring for micro switch for stopping the fan when fire damper closes. ii.All outgoing feeders shall be provided with Stop / Manual /Auto selector switch to facilitate remote operation through BAS. All starters shall be provided with potential free Contact. iii. Suitable rating TP MPCB with over load and short circuit protection including separate neutral link. iv.Digital electronic VAF meter with inbuilt selector switch and 3No. Suitable rating CL.1 CTs – 1 set v. Phase indicating light through 2 amps SP MCB -1 sets vi. ON/OFF/Trip indication with MCB protection for motors – 1 set vii. Start / Stop push button – 1 set viii. Power / control terminal as required – 1 set ix. All starters shall have provision of separate incoming and outgoing cable x. Power contactor for Star Delta starter of following suitable rating – 1 set xi. Incoming-32A FP MCB-1 nos xii. Outgoing -15 HP star-delta starter with suitable contactors, auxiliary contacts, over load relays etc.- 1 nos	1.00	Job	60320.00	60320.00	100000.00	100000.00	50000.00	50000.00	67732.00	67732.00	45000.00	45000.00	65000.00	65000.00
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88.00	Supply, Installation, Testing and Commissioning of control panel cubicle type, starter panel made out of 16 SWG CRCA sheet steel, totally enclosed, IP 42, protection, wall mounting type, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply interconnections with 2.5 sq.mm size of FRLS copper wire, control circuit, auto/ manual selector switch and having following component and accessories. Cable entry provision shall have both Top/Bottom option i. Wiring for micro switch for stopping the fan when fire damper closes. ii.All outgoing feeders shall be provided with Stop / Manual /Auto selector switch to facilitate remote operation through BAS. All starters shall be provided with potential free Contact. iii. Suitable rating TP MPCB with over load and short circuit protection including separate neutral link. iv.Digital electronic VAF meter with inbuilt selector switch and 3No. Suitable rating CL.1 CTs – 1 set v. Phase indicating light through 2 amps SP MCB -2 sets vi. ON/OFF/Trip indication with MCB protection for motors – 2 set vii. Start / Stop push button – 2 set viii. Power / control terminal as required – 2 set ix. All starters shall have provision of separate incoming and outgoing cable x. Power contactor for Star Delta starter of following suitable rating – 2 set xi. Incoming-32A FP MCB-2 nos xii. Outgoing -7.5 HP star-delta starter with suitable contactors, auxiliary contacts, over load relays etc.- 2 nos	1.00	Job	141520.00	141520.00	200000.00	200000.00	62000.00	62000.00	99120.00	99120.00	79650.00	79650.00	130000.00	130000.00
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