

QUOTATION

Name of work :- Internal electrical works in New UPS rooms constructed near computer centre in the campus at IIT Kanpur.

S. No	Description	QTY	Unit	Rate	Amount
1	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.				
a)	Group C	12.00	Point	924.96	11099.55
2	Rewiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.	2.00	Point	924.96	1849.93
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.				
a)	1 x 1.5 sq. mm	20.00	Metre	46.56	931.17
b)	3 x 1.5 sq. mm	40.00	Metre	98.29	3931.61
c)	3 x 2.5 sq. mm	20.00	Metre	141.74	2834.90
d)	3 x 4 sq. mm	65.00	Metre	213.13	13853.75
e)	3 x 16 sq.mm.	15.00	Meter	744.94	11174.05
4	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
a)	20 mm	5.00	Metre	230.72	1153.62
b)	25 mm	5.00	Metre	264.87	1324.33
5	Supply and fixing of 32 x 12.5 mm DLP mini- trunking white-system with independent cover etc. as required complete.	20.00	Meter	171.75	3434.98
6	Supply and fixing of following accessories suitable for 32 mm x 12.5 mm size plastic trunking white system.				
a)	End cap	10.00	Nos.	74.49	744.94
b)	internal / external angle	4.00	Nos.	103.46	413.85
c)	changeable flat angle	3.00	Nos.	111.74	335.22
d)	flat junction	2.00	Nos.	140.71	281.42
7	Supply and fixing of 32 x 20 mm DLP mini- trunking white-system with independent cover etc. as required complete.	30.00	Meter	225.55	6766.51
8	Supply and fixing of following accessories suitable for 32 mm x 20 mm size plastic trunking white system.				
a)	End cap	4.00	Nos.	147.95	591.81
b)	internal / external angle	4.00	Nos.	140.71	562.84
c)	changeable flat angle	3.00	Nos.	118.98	356.95
d)	flat junction	1.00	Nos.	140.71	140.71
9	Supply and fixing of 105 x 50 mm DLP trunking white-system but without cover and partition etc. as required complete.	15.00	Meter	909.44	13641.65

S. No	Description	QTY	Unit	Rate	Amount
10	Supply and fixing of following accessories suitable for 105 mm x 50 mm size plastic trunking white system.				
a)	85 mm flexible cover	15.00	Meter	400.40	6006.05
b)	End cap	8.00	Nos.	185.20	1481.60
c)	Internal angles- adjustable from 80°-100°	8.00	Nos.	503.87	4030.93
d)	external angles- adjustable from 60°-120°	8.00	Nos.	533.87	4270.97
e)	flat junction	2.00	Nos.	888.75	1777.50
f)	flat angles	2.00	Nos.	718.04	1436.07
g)	separation partitions	25.00	Meter	237.97	5949.15
h)	Joints for 85mm width cover	10.00	Nos.	201.75	2017.54
i)	base joints	25.00	Nos.	88.98	2224.46
11	Supply & Laying of 32 mm dia, 8Kg / cm ² , minimum 2.0 mm thick HDPE pipe, ISI mark in following manners as required complete.				
a)	On Surface	15.00	Meter	98.29	1474.35
b)	Direct in ground	5.00	Meter	307.29	1536.43
c)	in pipe	3.00	Meter	80.70	242.10
d)	Open duct	2.00	Meter	69.32	138.64
12	S & F following size of steel flexible pipe along with the accessories on surface etc as required				
a)	25 mm	3.00	Meter	85.87	257.62
13	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	70.00	Metre	43.45	3041.82
14	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	125 A,36KA,FPMCCB	2.00	No.	8493.31	16986.62
15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, 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)				
a)	2+12 way, Double door	2.00	No.	2395.18	4790.36
16	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a)	4 way (4 +12), Double door	1.00	No.	7772.17	7772.17

S. No	Description	QTY	Unit	Rate	Amount
17	Supplying and fixing following rating, 240/415 V, 10 kA, "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.				
a)	Single pole 5 A to 32 A	24.00	No.	264.87	6356.79
b)	Double pole 5 A to 32 A	1.00	No.	678.72	678.72
c)	Triple pole 5 A to 32 A	1.00	No.	1041.88	1041.88
d)	Triple pole and neutral 5 A to 32 A	1.00	No.	1270.53	1270.53
e)	Single Pole (40A-63A)	2.00	Nos.	539.04	1078.09
f)	Triple Pole (40A-63A)	2.00	Nos.	1628.51	3257.03
g)	Triple pole and neutral (40A-63A)	2.00	Nos.	2019.61	4039.21
18	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	3.00	No.	13.45	40.35
19	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	63 A	2.00	No.	2816.27	5632.55
20	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm ERLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm ERLS PVC insulated copper conductor single core cable etc. as required.				
a)	Group C	6.00	Point	887.72	5326.30
21	S&F connecting and commissioning independent mounting of MCCB enclosure suitable for MCCB's up to 250A in surface/recess I/c cutting the wall and making good the same in case of recessed (Cat No CS-CNM0100021 C & S or approved equivalent make) as reqd.	1.00	Nos.	4432.37	4432.37
22	S & F metal enclosure suitable for DP/TPN MCB / DP ELCB on surface or recessed etc as reqd.	2.00	Nos.	1044.98	2089.96
23	Supply and fixing of following LED light fixture with efficiency >100 lumen/ watt, P.F. >0.95, THD<10%, Electronic driver, LED lamp, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories and lamp as required complete.				
a)	1 X 20W Box type LED tube with fitting	18.00	Nos.	982.90	17692.24
24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	5/6 A switch	18.00	No.	106.57	1918.21
b)	2 way 5/6 A switch	2.00		153.13	306.25
c)	15/16 A switch	8.00	No.	161.40	1291.22
d)	3 pin 5/6 A socket outlet	8.00	No.	126.23	1009.80
e)	6 pin 15/16 A socket outlet	8.00	No.	203.82	1630.58
f)	Blanking Plate	4.00	No.	41.39	165.54
g)	two module stepped type electronic fan regulator	4.00	No.	381.78	1527.12

S. No	Description	QTY	Unit	Rate	Amount
25	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
a)	3 Module	1.00	No.	156.23	156.23
b)	6 Module	1.00	No.	188.30	188.30
c)	12 Module	2.00	No.	281.42	562.84
26	Supplying and fixing following size/ modules, plastic box for modular switches in recess etc as required.				
a)	3 Module	1.00	Nos.	341.43	341.43
b)	6 Module	1.00	Nos.	386.95	386.95
c)	12 Module	2.00	Nos.	743.90	1487.80
27	Fixing of RJ-45 modular box with cover plate or I/o box for internet on surface/ recessed cutting the wall making good the same as required. (box and cover plate will be supplied by dept.)	36.00	Nos.	102.43	3687.44
28	Laying UTP cable enhanced cat 5/cat 6 1,2 & 3 run of Cable in existing steel conduit pipe/GI pipe/ raceway / RCC pipe as reqd. the cost shall also include numbering of networking wire from room to rack as reqd. (wire will be supplied by dept)	350.00	Mtr	23.80	8328.80
29	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise 75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each	2824.55	5649.10
30	Supplying and laying of one no. 3.5 x 70.0 sqmm PVC insulated, XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as required complete in following manners.				
a)	in ground I/c excavation, sand cushioning, protective covering and refixing the trench etc as reqd	6.00	Meter	885.65	5313.88
b)	in open duct	3.00	Meter	471.79	1415.38
c)	On Surface	26.00	Meter	563.88	14660.76
31	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				

