

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

**Tender Notice No. 93 /Elect/2019**

**SCHEDULE OF QUANTITY**

Name of Work: Providing DG supply back up for UPS (40 KVA + 20 KVA+10 KVA) in ACMS Building.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as reqd.				
a	6 x 10 Sqmm	80.00	Mtr.		
b	6 x 16 Sqmm	150.00	Mtr.		
2	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	4 way (4 + 12) Double door	1.00	Nos.		
b	12 way (4 + 36) Double door	1.00	Nos.		
3	Supplying and fixing following rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
a	Double Pole ( 40 Amp to 63 Amp )	16.00	Nos.		
b	Tripple Pole ( 40 Amp to 63 Amp )	6.00	Nos.		
4	Supplying and making end termination with brass compression gland with aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd.				
a	3-1/2x 185 sqmm	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
5	Supply & laying of one no. PVC insulated and PVC sheathed aluminium conductor steel armoured cable of size 3-1/2 x 185 Sqmm grade 1.1 kV as reqd.				
a	In ground i/c excavation sand cushioning protective covering, refilling of earth as reqd.	285.00	Mtr.		
b	In existing pipe	27.00	Mtr.		
c	In existing open duct.	15.00	Mtr.		
6	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required				
a	80 mm dia	27.00	Mtr.		
7	Providing and fixing following rating and breaking capacity four pole 415V 50Hz MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required.				
a	250 Amp, 36 KA	1.00	Nos.		
8	S&F connecting and commissioning independent mounting of MCCB enclosure suitable 250 amp MCCB as per approved make in surface/recess I/c cutting the wall and making good the same in case of recessed as per approved make etc as reqd.	1.00	Nos.		
9	S & F, connecting and commissioning 250 amp 4 pole Front handle operated in sheet steel enclosure On Load changeover switch etc. as reqd.	1.00	Nos.		
10	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	6.00	Nos.		
11	S/F, copper cable lug suitable for following size of conductor.				
a	10 Sqmm	24.00	Nos.		
b	16 Sqmm	24.00	Nos.		
12	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	25.00	Mtr.		
13	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	25.00	Mtr.		
14	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	End cap	3.00	Nos.		
b	Internal angle.	4.00	Nos.		
c	External angle	2.00	Nos.		
d	Flat Junction	2.00	Nos.		
e	Changeable flat angle	1.00	Nos.		
f	Separation partitions	5.00	Mtr.		
g	cover joint	6.00	Nos.		
h	Base joint	12.00	Nos.		
15	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	25 mm	5.00	Mtr.		
b	32 mm	5.00	Mtr.		
	<b>Total Rs.</b>				