

INDIAN INSTITUTE OF TECHNOLOGY KANPUR



Tender Notice No. 21/Elect/2020

SCHEDULE OF QUANTITY

Name of Work: Providing electrical connection for the Exp. Rack det. Laboratory at B Block, ground floor in old SAC building and other associated work.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Supplying & Laying of one no. XLPE sheathed aluminum conductor steel armoured power cable of size 3-1/2x95 sq.mm. 1.1kV grade in following manners.				
a)	Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	180.00	Mtr.		
b)	Additional cable Laying in same trench	150.00	Mtr.		
c)	In pipe	50.00	Mtr.		
d)	In open duct	90.00	Mtr.		
2	Supplying and making indoor end termination with brass compression gland, aluminum lugs for following size of PVC insulated & PVC sheathed/XLPE aluminum cable of 1.1kV grade as reqd.				
a)	3-1/2x 95 sq.mm.	4.00	Nos.		
3	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)	200 Amp 36 kA FP	2.00	Nos.		
4	S&F metal enclosure suitable for DPX MCCB 125 to 250ER as reqd.	2.00	Nos.		

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5	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)	8-way Cat no. 607751 Legrand or its equivalent approved make.	1.00	Nos.		
b)	12-way Cat no. 607752 Legrand or its equivalent approved make.	1.00	Nos.		
6	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as reqd.				
a)	Single Pole	35.00	Nos.		
b)	Triple Pole	3.00	Nos.		
7	S & F 40 amp to 63 amp rating 240 volts 'C' curve 10 kA MCB of following pole in the existing MCB DB complete with connection, testing & commissioning etc as reqd. make legrand or its equivalent.				
a)	Single Pole	2.00	Nos.		
b)	Triple Pole	5.00	Nos.		
c)	Triple pole & Neutral	5.00	Nos.		
8	S&F single pole blanking plates in existing MCB DB complete etc. as required.	2.00	Nos.		
9	S & F metal enclosure suitable for DP/TPN MCB / DP ELCB on surface or recessed etc as reqd.	8.00	Nos.		
10	Supplying & drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel / PVC conduit as reqd.				
a)	3 x 1.5 Sq.mm..	150.00	Mtr.		
b)	3 x 2.5 Sq.mm..	200.00	Mtr.		

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c)	3 x 4 Sq.mm..	120.00	Mtr.		
d)	3 x 6 Sq.mm..	80.00	Mtr.		
e)	3 x 10 Sq.mm..	30.00	Mtr.		
11	S/F following modular base & cover plate on existing modular metal/ DLP boxes etc. as reqd.				
a)	1 or 2 module	10.00	Nos.		
d)	6 module	55.00	Nos.		
c)	8 module	40.00	Nos.		
12	Supply, fixing, following modular type switch / socket on existing modular plate & switch box including connectins but excluding modular plate etc. as reqd.				
a)	5/6 Amp switch	175.00	Nos.		
b)	15/16 Amp. switch	40.00	Nos.		
c)	3 Pin 5/6 Amp. socket outlet	175.00	Nos.		
d)	6 Pin 15/16 Amp. socket outlet.	40.00	Nos.		
e)	Telephone socket outlet	8.00	Nos.		
13	Laying UTP/ RJ-11/ RJ-6/ Telephone wire/ cable in existing steel conduit pipe/ GI pipe/ HDPE pipe as reqd. (The cost shall also include numbering of networking wire from room to rack as reqd.)	2500.00	Mtr.		
14	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.)	30.00	Nos.		
15	Supplying, installation DLP plastic trunking 105mm x 50mm and accessories plastic trunking without cover, for trunking, covers and partitions etc. as reqd.				
a)	Plastic trunking without cover	100.00	Mtr.		
b)	Flexible Cover 85mm width	85.00	Mtr.		

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c)	End caps	15.00	Nos.		
d)	Internal angle adustable from 80°-100°	5.00	Nos.		
e)	external angle adustable from 60°-120°	8.00	Nos.		
f)	cover Joints	30.00	Nos.		
g)	Flat angle	10.00	Nos.		
	TOTAL Rs.				