

INDIAN INSTITUTE OF TECHNOLOGY KANPUR



Tender Notice No. 138/Elect/2020

SCHEDULE OF QUANTITY

Name of Work: Providing additional power points along with distribution boards and other associated works in 4 chemistry Lab at Block 'C' First Floor of old SAC.

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	3 X 1.5 Sq.mm	120.00	Mtr		
b	3 x 4 Sq.mm	300.00	Mtr		
c	2 X 6 Sq.mm	50.00	Mtr		
d	3 X 10 Sq.mm	100.00	Mtr		
e	4 X 25 Sq.mm	50.00	Mtr		
2	Supplying and fixing following way, 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)				
a	12 Way, double door	1.00	Nos.		
3	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)				
a	8 way (4 + 24), Double door	3.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
4	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.		
5	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	Single Pole (5 Amp to 32 Amp)	80.00	Nos.		
b	Double Pole (5 Amp to 32 Amp)	1.00	Nos.		
c	Tripple Pole (5 Amp to 32 Amp)	4.00	Nos.		
d	Four Pole (5 Amp to 32 Amp)	4.00	Nos.		
e	Single Pole (40 Amp to 63 Amp)	4.00	Nos.		
f	Double Pole (40 Amp to 63 Amp)	1.00	Nos.		
g	Tripple Pole (40 Amp to 63 Amp)	12.00	Nos.		
h	Four Pole (40 Amp to 63 Amp)	12.00	Nos.		
6	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	125 Amp, 25 KA	5.00	Nos.		
b	250 Amp, 35/36 KA	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
7	S&F connecting and commissioning independent mounting of MCCB enclosure suitable upto 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.	6.00	Nos.		
8	Earthing with GI earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (193GI JMV)	2.00	Set		
9	Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.	20.00	Mtr		
10	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	20.00	Mtr.		
11	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	2.00	Nos.		
b	Internal angle/ External angle	4.00	Nos.		
c	Changeable flat angle	2.00	Nos.		
d	Flat Junction	2.00	Nos.		
12	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	180.00	Mtr.		
13	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	180.00	Mtr.		
14	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	8.00	Nos.		
b	Internal angle.	12.00	Nos.		
c	External angle	14.00	Nos.		
d	Flat Junction	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
e	Changeable flat angle	5.00	Nos.		
f	Separation partitions	150.00	Mtr.		
g	cover joint	20.00	Nos.		
h	Base joint	40.00	Nos.		
15	Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ DLP plastic trunking including connections but excluding modular plate etc as reqd.				
a	5 amps switch	186.00	Nos.		
b	15/16 amps switch	62.00	Nos.		
c	3/5 pin 5/6 amps socket outlet	186.00	Nos.		
d	3/5 pin 15/16 amps socket outlet	62.00	Nos.		
e	Blanking Plate	2.00	Nos.		
16	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 Module	8.00	Nos.		
b	6 Module	120.00	Nos.		
17	S/F, copper cable lug suitable for following size of conductor.				
a	6 Sqmm	12.00	Nos.		
b	25 Sqmm	12.00	Nos.		
18	Drawing of computer network cable/ PVC insulated flexible cooper/ Aluminium single core cable of size 1.5sqmm to 25 sqmm/ telephone cable upto 10 pair in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	3000.00	Mtr.		
19	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	60.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
20	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	4.00	Nos.		
21	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x185 sqmm 1.1kV grade .				
a	direct in ground i/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	105.00	Mtr.		
b	In pipe	10.00	Mtr.		
c	In open duct	5.00	Mtr.		
22	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	3-1/2x185 sqmm	2.00	Nos.		
23	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	10.00	Mtr		
24	S&F connecting and commissioning 400 Amp, 4 pole, 415 Volt copper bus bars (current density of busbar should be 1 amp/sqmm) which are to be fixed in front openable copper busbar chamber (IP-42 Protection) made of 1.6 mm thick eeet steel enclosure i/c double earth stud duly painted with powder coating with DMC insulator for busbar support. Busbar should have proper clearance of 35mm between phase to phase busbar, neutral busbar & 50mm walls of chamber it should be suitable for fixing on surface/ recess on the wall and making good the same in case of recessed as regd.	1.00	Nos.		
25	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	5.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	25 mm	5.00	Mtr.		
c	32 mm	10.00	Mtr.		
	TOTAL Rs.				