

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 109/Elect/2019****SCHEDULE OF QUANTITY****Name of Work : Providing separate cable from switch room, power points single phase and three phase, internet points, LED light fittings and wall fans alongwith other associated work in Material Separation Lab.**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	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'	30.00	Nos.		
2	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	2 X 1.5 Sq.mm	100.00	Mtr		
b	3 X 1.5 Sq.mm	20.00	Mtr		
c	3 X 2.5 Sq.mm	100.00	Mtr		
d	3 x 4 Sq.mm	230.00	Mtr		
e	6 x 4 Sq.mm	110.00	Mtr		
f	6 x 16 Sqmm	30.00	Mtr.		
3	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 reqd.				
a	20 mm	60.00	Mtr		
b	25 mm	15.00	Mtr		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
4	Supplying and fixing following of size/modules, GI box along with modular base & cover plate for modular switches in recess etc as reqd.				
a	2 module (75mm x 75mm)	12.00	Nos.		
b	3 module (100mm x 75mm)	2.00	Nos.		
c	6 module (200mm x 75mm)	6.00	Nos.		
d	8 module (125mm x 125mm)	6.00	Nos.		
e	12 module (200mm x 150mm)	17.00	Nos.		
5	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	1.00	Nos.		
6	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	12 way (4 + 36), Double door	1.00	Nos.		
7	S & F following rating and pole, 240 volts 'C' curve 10 kA, lexic MCB of following pole in the existing MCB DB complete with connection, testing & commissioning etc as reqd.				
a	Single Pole (5 Amp to 32 Amp)	32.00	Nos.		
b	Double Pole (5 Amp to 32 Amp)	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
c	Tripple Pole (5 Amp to 32 Amp)	8.00	Nos.		
d	Four Pole (5 Amp to 32 Amp)	8.00	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)	1.00	Nos.		
h	Four Pole (40 Amp to 63 Amp)	1.00	Nos.		
8	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth metal enclosed plug top along with 20 amps ' C ' series SP, MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc as required.	2.00	Nos.		
9	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, 35/36 KA	2.00	Nos.		
10	S&F connecting and commissioning independent mounting of 250 amp MCCB enclosure make legrand or its equivalent approved make in surface/recess I/c cutting the wall and making good the same in case of recessed as reqd.	2.00	Nos.		
11	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		
12	Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.	20.00	Mtr		
13	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x95 sqmm 1.1kV grade .				
a	On surface with MS clamp	55.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	In open duct	5.00	Mtr.		
14	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	40.00	Mtr.		
15	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	4.00	Nos.		
b	Internal angle/ External angle	6.00	Nos.		
c	Changeable flat angle	5.00	Nos.		
d	Flat Junction	2.00	Nos.		
16	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	70.00	Mtr.		
17	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	70.00	Mtr.		
18	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	4.00	Nos.		
b	Internal angle.	8.00	Nos.		
c	External angle	10.00	Nos.		
d	Flat Junction	5.00	Nos.		
e	Changeable flat angle	4.00	Nos.		
f	Separation partitions	60.00	Mtr.		
g	cover joint	10.00	Nos.		
h	Base joint	20.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
19	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	5/6 amps switch	35.00	Nos.		
b	15/16 amps switch	32.00	Nos.		
c	3 pin 5/6 amps socket outlet	20.00	Nos.		
d	6 pin 15/16 amps socket outlet	32.00	Nos.		
e	Blanking Plate	10.00	Nos.		
20	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 module	2.00	Nos.		
b	6 module	2.00	Nos.		
21	Supply and installation of 400mm sweep AC 230/250 volts, 50 Hz wall mounting revolving fan with brackets etc complete.	10.00	Nos.		
22	S/F, connecting, testing and commissioning 34/35/36 watt LED recess mounted luminaires with diffuser suitable for 600 mm X 600 mm modular POP/Gypsem ceiling etc.as reqd.	20.00	Nos.		
23	S/F, copper cable socket suitable for following size of conductor.				
a	16 Sqmm	24.00	Nos.		
24	Drawing of computer network cable in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	400.00	Mtr.		
25	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	25.00	Nos.		
26	Supplying, installation, testing & commissioning, of ionozatinn smoke detectors with standard base including base plate & mounting accessories as reqd.	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
27	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	8.00	Nos.		
28	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	3-1/2x95 sqmm	4.00	Nos.		
29	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	5.00	Mtr.		
b	25 mm	40.00	Mtr.		
	Total Rs.				