

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 93/IWD/ED/342****SCHEDULE OF QUANTITY**

Name of work: Construction of seminar / discussion room for Deptt. of chemistry between 205A & 206E at old core lab. (SH: Electrical work).

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a	Group C	28.00	Point		
2	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	3 x 1.5 sq. mm	10.00	Metre		
b	3 x 2.5 sq. mm	180.00	Metre		
c	3 x 4 sq. mm	145.00	Metre		
d	2 x 16 sq.mm.	15.00	Meter		
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 required.				
a	25 mm	15.00	Metre		
4	Supply and fixing of 32 x 20 mm DLP mini- trunking white-system with independent cover etc. as required complete.	20.00	Meter		
5	Supply and fixing of following accessories suitable for 32 mm x 20 mm size plastic trunking white system.				
a	End cap	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	internal / external angle	1.00	Nos.		
c	changeable flat angle	2.00	Nos.		
d	flat junction	2.00	Nos.		
6	Supply and fixing of 105 x 50 mm DLP trunking white-system but without cover and partion etc. as required complete.	60.00	Meter		
7	Supply and fixing of following accessories suitable for 105 mm x 50 mm size plastic trunking white system.				
a	85 mm flexible cover	60.00	Meter		
b	End cap	4.00	Nos.		
c	Internal angles- adjustable from 80°-100°	6.00	Nos.		
d	external angles- adjustable from 60°-120°	4.00	Nos.		
e	flat junction	4.00	Nos.		
f	flat angles	5.00	Nos.		
g	separation partitions	25.00	Meter		
h	Joints for 85mm width cover	25.00	Nos.		
i	base joints	50.00	Nos.		
8	Extra for cutting and drilling hole in down rod of 15mm dia GI pipe for ceiling fan etc. as required complete.	6.00	Nos.		
9	S & F following size of steel flexible pipe alongwith the accessories on surface etc as required				
a	25 mm	5.00	Meter		
10	Supplying, fixing, painting of 15mm dia GI heavy class pipe down rod for ceiling fan etc as required complete.	5.00	Meter		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
11	Chemical 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.	4.00	No.		
12	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	50.00	Metre		
13	Supplying and fixing connecting and commissioning following rating, three pole, 35kA MCCB with microprocessor based LS-I release in the existing DB/ Box as required complete.				
a	100 A	1.00	Nos.		
14	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	No.		
15	Supplying and fixing 5 A to 32 A 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	18.00	No.		
b	Triple pole	4.00	No.		
c	Triple pole and neutral	4.00	No.		
d	Triple pole	2.00	Nos.		
16	S&F connecting and commissioning independent mounting of MCCB enclosure suitable for MCCB's upto 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.		

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17	S & F metal enclosure suitable for DP/TPN MCB / DP ELCB on surface or recessed etc as reqd.	4.00	Nos.		
18	Supply and fixing of following LED light fixture with Electronic driver, LED lamp, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories and lamp as required complete.				
a	12 watt recess mounting LED light fixture	4.00	Nos.		
b	36 watt recess mounting LED light fixture 600 x 600 mm	20.00	Nos.		
19	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	22.00	No.		
b	15/16 A switch	5.00	No.		
c	3 pin 5/6 A socket outlet	22.00	No.		
d	6 pin 15/16 A socket outlet	5.00	No.		
20	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
a	3 Module	5.00	No.		
b	6 Module	11.00	No.		
21	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	6.00	No.		
22	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.)	4.00	Nos.		
23	Laying UTP cable enhanced cat 5/cat 6 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)	150.00	Meter		

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24	S & F fan hook I/c cutting the slab and fixing with the reinforcement and making damage, painting etc as the same	6.00	Nos.		
25	Supply Installation, testing and commissioning of following ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.				
a	1200mm sweep.	6.00	Nos.		
26	Supplying and fixing exhaust fan shutter for following sizes exhaust fan on rag bolts as reqd complete.				
a	450 mm / 18" sweep	1.00	Nos.		
27	Supplying and fixing exhaust fan shutter for following sizes exhaust fan on rag bolts as reqd complete.				
a	for 450 mm / 18" sweep	1.00	Nos.		
28	Supplying and fixing connecting and commissioning of AC 230/250 volts, 50 HZ, 250 mm sweep fresh air fan including providing nuts, bolts, mounting frame and other accessories etc. complete	1.00	Nos.		
29	S&F, Copper tube / reducer/ lug terminals suitable for following size of conductor.				
a	6/10/16 Sq.mm.	12.00	Nos.		
b	25/35/50 Sq.mm.	9.00	Nos.		
30	Supplying and laying of one no. 3.5 x 50.0 sqmm PVC insulated, XLPE steel armoured aluminium conductor power cable of grade 1.1 kV as required complete in following manners.				
a	in open duct	40.00	Meter		
b	On Surface	10.00	Meter		
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.				
a	3½ X 50 sq. mm (35mm)	2.00	No.		