

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**



**Tender Notice No. 122/IWD/ED/516**

**SCHEDULE OF QUANTITY**

**Name of Work: Renovation of electrical installation and other associated work in old core lab 106 A & B..**

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	12.00	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	50.00	Metre		
b	3 x 2.5 sq. mm	100.00	Metre		
c	3 x 4 sq. mm	180.00	Metre		
d	6 x 6 sq. mm	40.00	Metre		
e	3 x 10 sq.mm.	25.00	Meter		
f	6 x 16 sq.mm.	15.00	Meter		
3	Supply and fixing of 32 x 20 mm DLP mini- trunking white-system with independent cover etc. as required complete.	25.00	Meter		
4	Supply and fixing of following accessories suitable for 32 mm x 20 mm size plastic trunking white				
a	End cap	4.00	Nos.		
b	Internal / external angle	2.00	Nos.		
c	Changeable flat angle	7.00	Nos.		
d	Flat junction	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
5	Supply and fixing of 105 x 50 mm DLP trunking white-system but without cover and partion etc. as required complete.	45.00	Meter		
6	Supply and fixing of following accessories suitable for 105 mm x 50 mm size plastic trunking white system.				
a	85 mm flexible cover	45.00	Meter		
b	End cap	6.00	Nos.		
c	Internal angles- adjustable from 80°-100°	3.00	Nos.		
d	External angles- adjustable from 60°-120°	4.00	Nos.		
e	Flat junction	4.00	Nos.		
f	Flat angles	4.00	Nos.		
g	Separation partitions	25.00	Meter		
h	Base joints	39.00	Nos.		
i	Clip-on partitions	30.00	Nos.		
7	Supplying, installation of Clip-on frame with finishing plate for 85mm cover for DLP plastic trunking 105mm x 50mm etc. as reqd.				
a	3 module	5.00	Nos.		
b	6 module	21.00	Nos.		
8	Supply and fixing of following LED light fixture with Electronic driver, LED lamp, reflector, diffusser, MS body/housing holder etc. complete with all fixing accessories and lamp as required complete.				
a	36 watt recess mounting LED light fixture 600 x 600 mm	11.00	Nos.		
9	S & F metal enclosure suitable for DP/TPN MCB / DP ELCB on surface or recessed etc as reqd.	3.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
10	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.		
11	Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	1.00	No.		
12	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	60.00	Meter		
13	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.		
14	Dismantling the old conduit pipe/wood batten of all sizes from surface/recessed & making good the damages I/c filling the holes of the surface etc as reqd.	53.00	Meter		
15	Dismantling concealed & damaged DB/TPN Switches/starter/ loose wire boxes along with all accessories and depositing the same in the store repairing the damages as reqd complete.	2.00	Nos.		
16	Dismantling, disconnecting old damaged unserviceable fl fitting/ exhaust fan/ ceiling fan/ bulkhead fitting with bracket etc. as reqd. and depositing in sectional store.	10.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
17	Supplying and fixing following 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 5 A to 32 A	20.00	No.		
b	Double pole 5 A to 32 A	1.00	No.		
c	Triple pole 5 A to 32 A	3.00	No.		
d	Triple pole and neutral 5 A to 32 A	3.00	No.		
e	Single Pole (40A-63A)	2.00	Nos.		
f	Four Pole (40A-63A)	1.00	Nos.		
18	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	20 mm	10.00	Metre		
19	Chemical Earthing with Copper bonded 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.	2.00	No.		
20	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	5.00	Metre		
21	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)	449.00	Meter		
22	S&F, Copper tube / reducer/ lug terminals suitable for following size of conductor.				
a	6/10/16 Sq.mm.	30.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
23	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.)	12.00	Nos.		
	<b>Total Rs.</b>				