

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

**Tender Notice No. 07/IWD/ED/34**

**SCHEDULE OF QUANTITY**

Name of work: Part-A: Renovation and modification of electrical installation in CL-205E and Part-B: Provision wall light on the roof top of EE lab and light points, power points in temperature control rooms in WL-116.

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'	13.00	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	3 X 1.5 Sq.mm	30.00	Mtr		
b	3 X 2.5 Sq.mm	300.00	Mtr		
c	3 x 4 Sq.mm	50.00	Mtr		
d	3 x 6 sq. mm	20.00	Mtr		
e	3 x 10 Sqmm	30.00	Mtr.		
f	6 x 16 Sqmm	10.00	Mtr.		
3	Supplying and drawing following pair 0.5 Sq.mm FR PVC insulated copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as reqd.				
a	2 Pair	30.00	Mtr		
4	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	10.00	Mtr		
b	25 mm	10.00	Mtr		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
5	Supplying and fixing following of size/modules, GI box along with modular base & cover plate for modular switches in recess etc as reqd.				
a	6 module (200mm x 75mm)	1.00	Nos.		
b	12 module (200mm x 150mm)	2.00	Nos.		
6	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.		
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 )	10.00	Nos.		
b	Double Pole ( 40 Amp to 63 Amp )	3.00	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 soc	4.00	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	100 Amp, 30KA	1.00	Nos.		
10	S&F connecting and commissioning independent mounting of 125/160/250 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.	1.00	Nos.		
11	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	15.00	Mtr.		
12	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	1.00	Nos.		
b	Internal angle/ External angle	1.00	Nos.		

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c	Changeable flat angle	1.00	Nos.		
d	Flat Junction	1.00	Nos.		
13	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	57.00	Mtr.		
14	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	50.00	Mtr.		
15	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	6.00	Nos.		
b	Internal angle.	6.00	Nos.		
c	External angle	2.00	Nos.		
d	Flat Junction	1.00	Nos.		
e	Changeable flat angle	6.00	Nos.		
f	Separation partitions	45.00	Mtr.		
g	cover joint	10.00	Nos.		
h	Base joint	30.00	Nos.		
16	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	61.00	Nos.		
b	15/16 amps switch	58.00	Nos.		
c	3 pin 5/6 amps socket outlet	48.00	Nos.		
d	6 pin 15/16 amps socket outlet	58.00	Nos.		
e	Blanking Plate	5.00	Nos.		
17	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 Module	9.00	Nos.		
b	6 Module	9.00	Nos.		
18	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	6.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
19	S & F following rating moduler RJ-11 telephone jack (1M) complete with moduler base & cover plate etc as reqd.	1.00	Nos.		
20	Supply, Installation, testing & commissioning of Ceiling fan of following 220 volts 50 Hz without regulator I/c wiring the down rods of standard length up to 30 cm with 1.5 sqmm PVC insulated copper conductor single core cable etc as reqd(Havells/Orient/ Bajaj make)				
a	1200 mm	6.00	Nos.		
21	S/F, connecting, testing and commissioning 36 watt Orion II LED recess mounted luminaires with PMMA diffuser suitable for moduler ceiling etc.as reqd.	14.00	Nos.		
22	S/F, connecting, testing and commissioning 2 x 20 watt LED tube fitting surface mounting luminaires suitable mounting rail for T-LED lamps with 2 Nos. 20 watt LED lamps and connection etc.as reqd as per approved make.	1.00	Nos.		
23	S/F, copper cable socket suitable for following size of conductor.				
a	6 Sqmm	6.00	Nos.		
b	10 Sqmm	6.00	Nos.		
c	16 Sqmm	36.00	Nos.		
24	Drawing of computer network cable in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	700.00	Mtr.		
25	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	15.00	Nos.		
26	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	2.00	Nos.		
27	Extra for cutting and drilling hole & panting of down rod of G.I pipe,15 mm dia for ceiling fan etc as required.	6.00	Job		
28	Supplying & fixing 15 mm dia GI pipe for down rod for fixing of ceiling fans etc as reqd.	6.00	Mtr.		
29	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	10.00	Mtr.		
b	25 mm	5.00	Mtr.		
30	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.	50.00	Mtr.		

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31	Dismantling damaged DB/TPN Switches/ loose wire boxes/ M.S. boxes alongwith all accessories and depositing the same in the store as reqd.	20.00	Nos.		
32	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	20.00	Nos.		
33	Dismantling, disconnecting 1x 1.5 / 2.5/ 4.0 / 6.0/ 10.0 sqmm wire from existing conduit pipe/batten/casing & capping and making role and depositing in store as reqd.	250.00	Mtr.		
<b>Part-B:</b>					
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'	4.00	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	3 X 1.5 Sq.mm	14.00	Mtr		
b	3 X 2.5 Sq.mm	23.00	Mtr		
c	2 X 4 Sq.mm	60.00	Mtr		
3	Supply and drawing PVC insulated copper conductor (Flexible) 3 core round cable 2.5 Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	50.00	Mtr.		
4	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	21.00	Mtr.		
5	Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, b	7.00	Nos.		
6	S/F, connecting, testing and commissioning 34/35/36 watt LED recess mounted luminaires with diffuser suitable for 600 mm X 600 mm moduler POP/Gypsem ceiling etc.as reqd.	4.00	Nos.		
7	Supplying and fixing, 24 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories complete	7.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
8	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as reqd.				
a	100 mm X 100 mm X 60 mm deep	7.00	Nos.		
9	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	4.00	Nos.		
b	15/16 amps switch	3.00	Nos.		
c	6 pin 15/16 amps socket outlet	3.00	Nos.		
d	Blanking Plate	2.00	Nos.		
10	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 Module	4.00	Nos.		
11	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	3 Module	4.00	Nos.		
12	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc as required.	7.00	Nos.		
12	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 soc	6.00	Nos.		
	<b>Total Rs.</b>				