

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

**Tender Notice No. 81/IWD/ED/496**

**SCHEDULE OF QUANTITY**

**Electrical work for (Part-A) Shifting of power points from room no. 212 to 214 alongwith providing, earthing additional power points, internet points & input / outputs connection of UPS at CESE. (Part-B) Repairing and replacement of defective electrical items in ACES 113 to 115 corridor, SE Lab, FB 567, Rajeev Motwani 6 floor, NCL-204, Aerospace, Air strip and different labs and office in academic area on complaint basis. (Part-C) Replacement of old PL type light fittings with LED light fittings in WL-213.**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
	<b>Part-A</b>				
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	10.00	Mtr		
b	3 X 2.5 Sq.mm	50.00	Mtr		
c	3 x 4 Sq.mm	25.00	Mtr		
d	3 x 6 sq. mm	10.00	Mtr		
e	3 x 10 Sqmm	15.00	Mtr.		
f	6 x 16 Sqmm	20.00	Mtr.		
2	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 )	5.00	Nos.		
b	Double Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
c	Tripple Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
d	Four Pole ( 5 Amp to 32 Amp )	1.00	Nos.		
e	Single Pole ( 40 Amp to 63 Amp )	1.00	Nos.		
f	Double Pole ( 40 Amp to 63 Amp )	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
g	Tripple pole ( 40 Amp to 63 Amp )	1.00	Nos.		
h	Four Pole ( 40 Amp to 63 Amp )	1.00	Nos.		
3	Providing and fixing 6 SWG dia G.I wire on surface or in reces for loop earthing along with existing surface/ recessed conduit/ submain wiring cable/ cable as required.	5.00	Mtr		
4	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper cond	8.00	Nos.		
5	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, 25KA	1.00	Nos.		
6	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.		
7	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	10.00	Mtr.		
8	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	2.00	Nos.		
c	Changeable flat angle	3.00	Nos.		
d	Flat Junction	1.00	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	15.00	Nos.		
b	15/16 amps switch	20.00	Nos.		
c	3 pin 5/6 amps socket outlet	15.00	Nos.		
d	6 pin 15/16 amps socket outlet	20.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
e	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	10.00	Nos.		
b	6 Module	15.00	Nos.		
11	S & F following rating moduler RJ-11 telephone jack (1M) complete with moduler base & cover plate etc as reqd.	2.00	Nos.		
12	Supply,Installation of exhaust fan 220 volt, 50 Hz of following sizes in the existing opening I/c connection, testing, commissioning etc as reqd.				
a	375 mm	2.00	Nos.		
13	S/F, Exhaust fan shutter of following sizes on rag bolts as reqd.				
a	375 mm	2.00	Nos.		
14	S/F, copper cable socket suitable for following size of conductor.				
a	10 Sqmm	6.00	Nos.		
b	16 Sqmm	11.00	Nos.		
15	Drawing of computer network cable in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	250.00	Mtr.		
16	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	10.00	Nos.		
17	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	1.00	Nos.		
18	Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Upto 35 sq. mm				
a	On surface with MS clamp	35.00	Mtr.		
b	In open duct	5.00	Mtr.		
19	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	3-1/2x 35 sqmm	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
20	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		
21	Providing & fixing 25mm x 5mm GI strip on surface or in recessd for connection etc. as reqd.	20.00	Mtr		
22	Supplying and fixing 32 amps, 230 volts, 2P+E industrial type, socket outlet, with 3 pin metal enclosed plug top along with 32 amps ' C ' series double pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket etc as reqd.	1.00	Nos.		
23	Dismantling the old conduit pipe/DLP of all sizes from surface/recessed & making good the damages I/c filling the holes of the surface etc as reqd.	40.00	Mtr.		
24	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	25 mm	1.00	Mtr.		
25	Fixing of ceiling fan / rally fan / cabin fan on rag bolts.	2.00	Nos.		
26	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	12.00	Nos.		
27	Fixing of 20/25 mm dia steel conduit pipe/ DLP alongwith the accessories in surface/recessed I/c painting in case of surface conduit or cutting the wall & making good the same in case of recessed conduit as reqd.	41.00	Mtr.		
	<b>Part-B</b>				
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	15.00	Mtr		
b	3 X 2.5 Sq.mm	3.00	Mtr		
2	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	18.00	Mtr.		
3	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	9.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	15/16 amps switch	9.00	Nos.		
c	3 pin 5/6 amps socket outlet	7.00	Nos.		
d	6 pin 15/16 amps socket outlet	9.00	Nos.		
4	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	5.00	Nos.		
5	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	3 Module	2.00	Nos.		
b	6 Module	2.00	Nos.		
6	Supply & retrofitting 18 watt LED PLL lamp in existing fitting and connection etc.as reqd	17.00	Nos.		
7	Supply & retrofitting 1 x 18/20 watt Tube LED lamp in existing fitting and connection etc.as reqd	44.00	Nos.		
8	S/F, connecting, testing and commissioning 1 x 18/20 watt LED tube fitting surface mounting/ceiling suspended luminaires suitable mounting rail for T-LED lamps with 1 No. 18/20 watt T-LED lamps (Polycarbonate) and connection etc.as reqd	2.00	Nos.		
9	S/F, connecting, testing and commissioning 22 watt LED recess mounted luminaires with diffuser suitable for modular ceiling/POP/Gypsem ceiling etc.as reqd.	4.00	Nos.		
10	S/F, connecting, testing and commissioning 18 watt LED recess mounted luminaires with diffuser suitable for modular ceiling/POP/Gypsem ceiling etc.as reqd.	1.00	Nos.		
11	Alteration of internal wiring in existing fitting of any type for retrofitting of tube LED i/c dismantelling & refixing as reqd.	40.00	Nos.		
12	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.	40.00	Mtr.		
13	S/F, copper cable lug suitable for following size of conductor.				
a	16 Sqmm	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
14	Supply,Installation of exhaust fan 220 volt, 50 Hz of following sizes in the existing opening I/c connection, testing, commissioning etc as reqd.				
a	450 mm	1.00	Nos.		
15	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	171.00	Nos.		
16	Locating fault in wiring rectifying moving & restoring supply the same & making good the damages etc as reqd.	2.00	Nos.		
17	Supplying and fixing 2.5 mfd capacitor suitable for ceiling fan.	6.00	Nos.		
18	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.	263.00	Mtr.		
19	Dismantling damaged DB/TPN Switches/ loose wire boxes/ M.S. boxes alongwith all accessories and depositing the same in the store as reqd.	143.00	Nos.		
	<b>Part-C</b>				
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	20.00	Mtr		
2	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	15.00	Mtr.		
3	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.	25.00	Nos.		
4	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	14.00	Nos.		
	<b>Total Rs. (Part-A, Part-B &amp; Part-C)</b>				