

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Tender Notice No. 108 /IWD/ED/601

SCHEDULE OF QUANTITY

Name of work: Electrical work for

Part-A : Providing power points from UPS in Hydraulics Lab & internet points in WL-203, FB-421, Tandetron Accelerator Facility at Nuclear Building.

Part-B: Providing power connection to newly constructed shed near Boiler House.

Name of the Contractor

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
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	100.00	Mtr		
c	3 X 6 Sq.mm	180.00	Mtr		
2	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	32 mm	30.00	Mtr		
3	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	175.00	Mtr.		
4	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	6.00	Nos.		
b	Internal angle/ External angle	16.00	Nos.		
c	Changeable flat angle	13.00	Nos.		
d	Flat Junction	9.00	Nos.		
5	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	2.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
6	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	4 way (4 + 12), Double door	2.00	Nos.		
7	Supplying and fixing following rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
a	Single Pole (5 Amp to 32 Amp)	24.00	Nos.		
b	Tripple Pole (5 Amp to 32 Amp)	2.00	Nos.		
c	Four Pole (5 Amp to 32 Amp)	2.00	Nos.		
8	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	20.00	Nos.		
b	15/16 amps switch	1.00	Nos.		
c	3 pin 5/6 amps socket outlet	20.00	Nos.		
d	6 pin 15/16 amps socket outlet	1.00	Nos.		
e	Blanking Plate	1.00	Nos.		
9	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	3 Module	1.00	Nos.		
b	6 Module	10.00	Nos.		
10	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	3 Module	1.00	Nos.		
b	6 Module	10.00	Nos.		
11	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	11.00	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.	390.00	Mtr.		
13	Providing connection for /motor/ panel starter/ transformer upto 1 Kva / steblizer.	10.00	Nos.		
	Part-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. FR PVC insulated copper conductor single core cable etc as required.				
a	Group C	5.00	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 reqd.				
a	3 x 4 Sq.mm	5.00	Mtr		
3	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	4 way (4 + 12), Double door	1.00	Nos.		
4	Supplying and fixing following rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	Single Pole (5 Amp to 32 Amp)	10.00	Nos.		
b	Single Pole (40 Amp to 63 Amp)	2.00	Nos.		
c	Tripple Pole (40 Amp to 63 Amp)	1.00	Nos.		
d	Four Pole (40 Amp to 63 Amp)	2.00	Nos.		
5	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	25 amps	2.00	Nos.		
b	40 amps	1.00	Nos.		
6	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	5.00	Mtr.		
7	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	2.00	Nos.		
b	Internal angle/ External angle	1.00	Nos.		
c	Changeable flat angle	1.00	Nos.		
d	Flat Junction	1.00	Nos.		
8	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	4.00	Nos.		
c	3 pin 5/6 amps socket outlet	4.00	Nos.		
d	6 pin 15/16 amps socket outlet	4.00	Nos.		
e	Blanking Plate	1.00	Nos.		
9	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	6 Module	4.00	Nos.		
10	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	6 Module	4.00	Nos.		
11	S/F, connecting, testing and commissioning 2 x 20 watt LED tube fitting surface mounting/ceiling suspended luminaires suitable mounting rail for T-LED lamps with 2 No. 20 watt T- LED lamps (Polycarbonate) and connection etc.as reqd	2.00	Nos.		
12	Supplying and fixing, 48 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories complete	1.00	Nos.		
13	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	1.00	Nos.		
14	S/F, wall mounting aircirculator fan 450 mm Cromplton make or equivalent make as reqd	2.00	Nos.		
15	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	3-1/2x25 sqmm	2.00	Nos.		
16	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.	100.00	Mtr		
17	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x25 sqmm 1.1kV grade .				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	45.00	Mtr.		
b	In open duct	15.00	Mtr.		
	Total Rs.				