

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Tender Notice No. 123/IWD/ED/674

SCHEDULE OF QUANTITY

Electrical work for:

Part-A: Providing power supply for newly installed wind tunnel alongwith other associated work in Low speed Aerodynamic Lab.

Part-B: Different electrical work in CESE-209, WL-129 and FB 515

Part-C: Providing power points in R&D cell at Flight Lab and additional Light fittings in WL-104D.

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
Part-A:					
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'	6.00	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	15.00	Mtr		
b	3 X 10 Sq.mm	5.00	Mtr		
3	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	10.00	Mtr.		
4	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.		
c	Changeable flat angle	1.00	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.		
b	25 mm	2.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
6	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	4 way (4 + 12) Double door	1.00	Nos.		
7	Supplying and fixing following rating, 240 volts, 'C' series, minature 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)	6.00	Nos.		
b	Tripple Pole (5 Amp to 32 Amp)	2.00	Nos.		
c	Four Pole (40 Amp to 63 Amp)	1.00	Nos.		
8	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.	6.00	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	2.00	Nos.		
10	S & F of 400 mm sweep AC 230/250 volts, 50 HZ wall mounting revolving fan with brackets etc. complete	2.00	Nos.		
11	S/F, copper cable lug suitable for following size of conductor.				
a	10 Sqmm	6.00	Nos.		
12	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	4.00	Nos.		
	Part-B:				

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'	3.00	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	10.00	Mtr		
b	3 x 4 Sq.mm	95.00	Mtr		
c	3 X 10 Sq.mm	35.00	Mtr		
3	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	25.00	Mtr.		
4	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	2.00	Nos.		
c	Changeable flat angle	1.00	Nos.		
d	Flat Junction	4.00	Nos.		
5	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	13.00	Mtr.		
6	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	12.00	Mtr.		
7	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	2.00	Nos.		
b	Internal angle.	4.00	Nos.		
c	External angle	3.00	Nos.		
d	Changeable flat angle	1.00	Nos.		
e	cover joint	8.00	Nos.		
f	Base joint	16.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
8	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	6 Way, double door	1.00	Nos.		
9	Supplying and fixing following rating, 240 volts, 'C' series, minature 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)	6.00	Nos.		
b	Double Pole (40 Amp to 63 Amp)	1.00	Nos.		
c	Tripple Pole (40 Amp to 63 Amp)	1.00	Nos.		
d	Four Pole (40 Amp to 63 Amp)	1.00	Nos.		
10	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	1.00	Nos.		
11	S/F, connecting, testing and commissioning 1 x 20 watt LED tube fitting surface mounting/ceiling suspended luminaires suitable mounting rail for T-LED lamps with 1 No. 20 watt T-LED lamps (Polycarbonate) and connection etc.as reqd	1.00	Nos.		
12	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc as reqd.				
a	5/6 amps switch	3.00	Nos.		
13	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	8.00	Nos.		
b	15/16 amps switch	22.00	Nos.		
c	3 pin 5/6 amps socket outlet	8.00	Nos.		
d	6 pin 15/16 amps socket outlet	22.00	Nos.		
e	Blanking Plate	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
14	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	1 or 2 Module	1.00	Nos.		
b	6 Module	11.00	Nos.		
c	12 Module	2.00	Nos.		
15	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	1 or 2 Module	1.00	Nos.		
b	6 Module	5.00	Nos.		
c	12 /16 Module	2.00	Nos.		
16	S,F,C,&C testing 100 watt step rotary switch/socket type fan regulator on existing board I/c connection etc as reqd.	1.00	Nos.		
17	S/F, copper cable lug suitable for following size of conductor.				
a	10 Sqmm	12.00	Nos.		
18	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	93.50	Sq.in.		
	Part-C:				
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	50.00	Mtr		
2	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	5.00	Mtr.		
3	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover-without central partion etc. as reqd.	36.00	Mtr.		
4	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	Internal angle/ External angle	8.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	Changeable flat angle	5.00	Nos.		
5	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	9.00	Mtr.		
6	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	6.00	Mtr.		
7	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	8.00	Nos.		
b	Internal angle.	1.00	Nos.		
c	Separation partitions	5.00	Mtr.		
d	cover joint	1.00	Nos.		
e	Base joint	4.00	Nos.		
8	Supplying and fixing following rating, 240 volts, 'C' series, minature 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)	5.00	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	9.00	Nos.		
b	15/16 amps switch	18.00	Nos.		
c	3 pin 5/6 amps socket outlet	9.00	Nos.		
d	6 pin 15/16 amps socket outlet	18.00	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	9.00	Nos.		
b	6 Module	9.00	Nos.		
11	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	9.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
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.	60.00	Mtr.		
13	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.	5.00	Nos.		
Total Rs.					