

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 59/IWD/ED/221****SCHEDULE OF QUANTITY**

Name of work: Repairing / replacement of defective electrical items in TB 203 to 212, ACES 105, internal Audit Section and different labs and offices in Academic area on complaint basis.

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	162.00	Mtr		
b	3 X 2.5 Sq.mm	50.00	Mtr		
c	3 X 6 Sq.mm	4.00	Mtr		
d	3 X 10 Sq.mm	51.00	Mtr		
e	3 X 16 Sq.mm	60.00	Mtr		
2	Supply and drawing following PVC insulated copper conductor flexible round cable for connection of equipment, exhaust fan, AC etc. as reqd.				
a)	3 core 1.5 sq.mm	40.00	Mtr.		
3	Supplying and drawing two pair 0.5 dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as reqd.	15.00	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	32 mm	16.00	Mtr		
5	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover- without central partion etc. as reqd.	125.00	Mtr.		
6	Supply and fixing of following accessories suitable for 32 mm x 20 mm size plastic trunking white system.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	End cap	1.00	Nos.		
b	Internal angle/ External angle	1.00	Nos.		
c	Changeable flat angle	1.00	Nos.		
7	Supply and fixing of 105 x 50 mm DLP trunking white-system but without cover and partion etc. as required complete.	12.00	Mtr.		
8	Supply and fixing of following accessories suitable for 105 mm x 50 mm size plastic trunking white system.				
a	85 mm width flexible cover	8.00	Mtr.		
b	End cap	6.00	Nos.		
c	Changeable flat angle	1.00	Nos.		
d	Separation partitions	10.00	Mtr.		
9	Supplying & fixing 15 mm dia GI pipe for down rod for fixing of ceiling fans etc as reqd.	36.00	Mtr.		
10	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	25 mm	10.00	Mtr.		
11	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, 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.	3.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
12	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	8 way (4 + 24) Double door	1.00	Nos.		
b	12 way (4 + 36) Double door	1.00	Nos.		
13	Supplying and fixing following rating, 240/415 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)	8.00	Nos.		
b	Double Pole (5 Amp to 32 Amp)	6.00	Nos.		
c	Tripple Pole (5 Amp to 32 Amp)	1.00	Nos.		
d	Four Pole (5 Amp to 32 Amp)	3.00	Nos.		
e	Single Pole (40 Amp to 63 Amp)	1.00	Nos.		
f	Double Pole (40 Amp to 63 Amp)	2.00	Nos.		
g	Tripple Pole (40 Amp to 63 Amp)	1.00	Nos.		
h	Four Pole (40 Amp to 63 Amp)	3.00	Nos.		
14	S & F metal enclosure suitable for DP/TP/FP MCB on surface or recessed etc as reqd.	9.00	Nos.		
15	Supply, installation, testing and commissioning of following LED lamp in existing fitting as required complete.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	20 watt ESENTIAL PHILIPS or equivalent Tube in place of 36/40 W FL tube	41.00	Nos.		
b	18 watt tube in place of 36W PLL lamp	10.00	Nos.		
16	Supply, installation testing and commissioning of following LED light fixtures complete with driver, reflector, diffuser and lamp as required complete.				
a	2 x 20 watt LED tube fitting surface, rail mounting / ceiling suspended.	1.00	Nos.		
b	12 watt LED surface mounted luminaires with diffuser Sleek Surface make Philips or equivalent approved make.	6.00	Nos.		
c	18 watt LED recess mounted luminaires, POLARIS IV make Crompton or equivalent approved make.	24.00	Nos.		
d	18 watt LED surface mounted luminaires, POLARIS IV make Crompton or equivalent approved make.	2.00	Nos.		
e	34/35/36 watt, 600 mm X 600 mm LED recess mounted luminaires, POLARIS I make Crompton or equivalent approved make.	4.00	Nos.		
f	36/40 watt recess mounting LED light fixture 300 x 1200 mm Make Crompton or its equivalent approved make.	2.00	Nos.		
17	Alteration of internal wiring in existing fitting of any type for retrofitting of tube LED i/c dismantling & refixing as reqd.	1.00	Nos.		
18	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 conductor, single core cable and earthing etc. as required.	74.00	Nos.		
19	Supplying and fixing call bell/ buzzer suitable for A.C. single phase, 230 volts, complete as required.	1.00	Nos.		
20	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc as reqd.				

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a	5/6 amps switch	16.00	Nos.		
b	15/16 amps switch	16.00	Nos.		
21	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	52.00	Nos.		
b	15/16 amps switch	11.00	Nos.		
c	3 pin 5/6 amps socket outlet	47.00	Nos.		
d	3/5 pin 15/16 amps socket outlet	11.00	Nos.		
e	Blanking Plate	1.00	Nos.		
f	Bell Push	1.00	Nos.		
g	2 module stepped type electronic fan regulator	2.00	Nos.		
22	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	7.00	Nos.		
b	3 Module	22.00	Nos.		
c	4 Module	1.00	Nos.		
d	6 Module	14.00	Nos.		
23	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	1 or 2 Module	7.00	Nos.		
b	3 Module	30.00	Nos.		
c	6 Module	22.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
24	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	2.00	Nos.		
25	Supply fixing connecting & commissioning of 5 Amp. 3 pin Plug top as reqd.	2.00	Nos.		
26	Supply fixing connecting & commissioning of 15 Amp. 3 pin Plug top as reqd.	4.00	Nos.		
27	Supply, Installation, testing & commissioning of following sweep Ceiling fan, 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 required complete.				
a	1200 mm sweep	28.00	Nos		
28	Supply, Fixing, shutter for following sizes of exhaust fan on rag bolts as reqd. complete.				
a	600 mm	2.00	Nos.		
29	Supply and Fixing, of 400 mm sweep AC 230/250 volts, 50 HZ wall mounting revolving fan with brackets etc. required complete	4.00	Nos.		
30	Supply, Fixing, copper lug suitable for following size of conductor/ cable.				
a	6/10/16 Sqmm	24.00	Nos.		
31	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.	1.00	Mtr.		
32	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	108.00	Nos.		
33	S & F, connecting and commissioning 4 pole Front handle operated in sheet steel enclosure On Load changeoverswitch of following capacity etc. as reqd.				
a	125 Amp Four Pole	1.00	No.		
34	S & F bakelite sheet 3 mm thick complete with required nuts & bolts as reqd.	1625.00	Sq.cm.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
35	Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.	1.00	Nos.		
	Total Rs.				