

INDIAN INSTITUTE OF TECHNOLOGY KANPUR**Tender Notice No. 06 /IWD/ED/39****SCHEDULE OF QUANTITY****Name of Work: Repairing / replacement damaged of street light in Type-I, Type-II, Type-III, Boom Barrier, Hall-12, Visitor Hostel-2, Samtel building as per enclosed complaints.**

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 required.				
a	2 x 1.5 sq. mm	36.00	Mtr.		
b	3 x 4 sq. mm	6.00	Mtr.		
2	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.				
a)	5/6 amps switch	2.00	Nos.		
b)	15/16 A switch	2.00	Nos.		
c)	3 pin 5/6 A socket outlet	1.00	Nos.		
d	6 pin 15/16 A socket outlet	2.00	Nos.		
3	S & F of following rating & poles 240 volts 'C' curve 10 kA MCB in the existing MCB DB complete with connection, testing & commissioning etc as reqd.				
a	Single Pole (5A to 32A)	7.00	Nos.		
b	Double pole (40A to 63A)	2.00	Nos.		
4	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade as reqd.				
a	2 X 6 sq. mm (19mm)	2.00	Each		

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5	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade as reqd.				
a	3½ X 70 sq. mm	4.00	Set		
6	Supplying, installation, testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight (Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required				
a	1 output per phase and suitable for single phase supply	4.00	Nos.		
7	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 2x6 sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	30.00	Mtr.		
b	Open Duct	3.00	Mtr.		
8	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 3-1/2 x 70sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	10.00	Mtr.		
9	Supplying and drawing of following sizes of FRLS PVC insulated copper conductor, 3 core round cable of following size in the existing surface/ recessed steel/ PVC conduit as required.				
a	1.5 Sq.mm	64.50	Mtr		
10	Digging cable trench/lifting brick/s and cable for locating fault and refilling the trench, ramming & making good the same as reqd.	103.00	Mtr.		

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11	Dismantling and refixing brass compression type gland up to 35 sq. mm. cable	38.00	Nos.		
12	Dismantling cross arm / street light brakcet/street light fitting from pole complete as required.	26.00	Nos.		
13	Locating fault in the cable lines with meggar etc and rectifying removing & restoring the same and making good the damages etc as required.				
a	upto 35 sqmm	34.00	Nos.		
14	Dismantling,repairing cleaning and commissioning of all type of street light fitting on pole/ walls etc. as reqd.	13.00	Nos.		
15	S&F, connecting and commissioning looping type cable end control box with MS sheet of 16 SWG of size 200 mm x 200 mm x 125 mm having 1 no. 6amp to 32 amp SPMCB 250 volt and 2 nos. brass neutral link 12.5 mm square rod 6 way approx. 60 mm long and fixed on 5 mm thick bakelite sheet. Box shall have almirah type hing and panel key type lock front door duly painted with earthing strud etc. complete as required.	1.00	Nos.		
16	Dismantling damaged switch/DB/KWH meter/ all type fitting / ceiling fan / Exhaust fan/ Wall Fan / pole fuse box/TPN switches metal helide box with MCB/Pole fuse box and depositing in the section store.	3.00	Nos.		
17	S/F testing commissioning of street light Luminures. LED postop lantern New generation, post-top, energy saving, environmental friendly, long life aesthetically designed with symmetrical light distribution, spun aluminium landscape luminaire with high power LEDs as light source.,make:havells or its equivalent, on the existing street light pole complete as required.				
a	40W	7.00	Nos.		
18	Fixing cross arm / street light brakcet/street light fitting with MS clamps GI bolts with washer as required.	3.00	Nos.		
19	Supplying, fixing, connecting, commissioning and testing of the following luminaries light fixtures complete with all accessories and with lamp as required complete.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a	LED tube 18 / 20 Watt.	5.00	Nos.		
20	Supply, installation, testing and commissioning of 3 pole power contactor following capacity as per requirement MAKE:legrand or equivalent with coil voltage 440 volts AC as reqd.				
a	32/40Amp	2.00	Nos.		
21	Painting of steel tubler / GI street light poles with minimum two coats of good quality (approved make) aluminium paint after cleaning the surface and rubbing the old paint etc. as reqd. complete.				
a	4.5 mtrs. Long	2.00	Nos.		
22	Providing & Replacement of damaged internal wiring of fitting of any type with 1.5sqmm PVC insulated copper single core wire.	5.00	Nos.		
23	Supplying, fixing, connecting & commissioning of 40W LED Box type Tube fitting High Performance integrated IP20 LED Batten to create a sustainable lighting environment with surface/suspended mounting SHELTER tube fitting as requierd.	1.00	Nos.		
24	S/F testing commissioning of street light Luminures.ENDURA CITYLITE PLAT INUM PLUS 35W LED Energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and Impact resistance of IK07 with 10KV Built-in Surge Protection Device.,make:havells or its equivalent, on the existing street light pole complete as required.	9.00	Nos.		
25	Fabrication, supplying & fixing of box of required size made out of 2mm thick CRCA sheet duly powder coated & openable from top-bottom or front required & fixing the same complete as required.	25.00	Kg		
26	S & F following size of PVC casing and capping on surface as reqd.				
a	25 x 16mm	4.00	Mtr.		

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27	Supply & fixing of 65 mm dia.'B' class GI pole 4.5 mtr. Long for post top lantern i/c bas eplate 300 x 300 x 3mm GI reducer & nipple for mounting the fitting with painting etc. grouting in cement concrete 1: 3: 6 (1 cement : 3 coarse sand : 6 grade stone aggregate 40mm nominal size 0.4mm dia x 0.5 mm high to accomade the looping) complete as reqd.	1.00	Nos.		
	Total Rs.				