

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 144/IWD/ED/607****SCHEDULE OF QUANTITY****Name of Work: Providing external lighting for newly constructed International GNSS service station at Flight Lab at IIT Kanpur.**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	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 required.				
a	32 mm	150.00	Mtr		
2	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as reqd.				
a	Single pole	4.00	Nos.		
b	Double pole	1.00	Nos.		
3	Earthing with G.I earth pipe 4.5 mtr long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	8.00	Set		
4	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	50.00	Mtr.		
5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable/ HDPE pipe of 1.1 KV grade of following size Upto 35 sq. mm including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
a	direct in ground	110.00	Mtr		
b	In pipe	85.00	Mtr		
c	In Open duct	45.00	Mtr		

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d	in surface	180.00	Mtr		
6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size 95 sq. mm and upto 185 sq. mm including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
a	In Open duct	140.00	Mtr		
7	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a	2 X 6 sq. mm (19mm)	20.00	Nos		
8	Supplying of following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	3 x 10 sq. mm	25.00	Mtr		
9	Lifting removing cable of following size from trench /clamps, making role & depositing the same in store I/c cartage.as per requirement.				
a	upto 35sqmm	60.00	Mtr		
b	35sqmm to 95sqmm	30.00	Mtr		
c	95sqmm to 185sqmm	50.00	Mtr		
d	185sqmm to 400sqmm	30.00	Mtr		
10	Digging trench for taking out cable and refilling , watering ,ramming the sameafter taking out cable as reqd complete.	425.00	Mtr		
11	S&F M.S. clamps for fixing insulator 'D' clamp street light bracket / cross arm, GI pipe etc. as required.	325.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
12	Locating fault in the cable lines with fault locator and meggering etc and rectifying removing & restoring the same and making good the damages etc as required.	3.00	Nos		
13	Supply and laying of HDPE pipe ISI mark of 32 mm (6Kg / cm <sup>2</sup> ) size inner dia, 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	On surface with MS clamp	100.00	Mtr.		
14	Fixing & connecting 1 phase/3 phase temporary service connection from supply source to the desired place for lead of 50 mtr and dismantling the same from the source I/c cartage to & fro from store (extension board & cable/wire will be supplied by the dept.)	1.00	Nos.		
15	Supplying of one No. PVC insulated & PVC sheathed / XLPE power cables size 2 x 6 sq. mm (heavy duty) aluminium conductor, steel armoured cable of 1.1kV grade as per IS:7098 (Part-I) as reqd complete in following manners.	300.00	Mtr		
16	S&F, connecting and commissioning looping type cable end control box with MS sheet of 16 SWG of size 300 mm x 300 mm x 200 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, indication lamp 3 nos., Digital timer 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		
	<b>Total Rs.</b>				