

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 39/IWD/ED/118****SCHEDULE OF QUANTITY**

Name of work: Electrification of proposed CCTV surveillance room at security unit IIT Kanpur

Name of the Contractor

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S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
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 piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.				
a)	Group A	30.00	Nos		
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.				
a)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	50.00	Mtr.		
3	Supplying & 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..	250.00	Mtr.		
b)	3 x 4 Sq.mm..	250.00	Mtr.		
c)	3 x 16 sq. mm	10.00	Mtr.		
4	Supplying and drawing telephone cable of 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	100.00	Mtr.		

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5	S & F of following size of steel conduit along with the accessories in surface/recess I/c painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit. as reqd.				
a)	20 mm	100.00	Mtr.		
b)	25 mm	100.00	Mtr.		
c)	32 mm	100.00	Mtr.		
6	S & F metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in the front I/c painting etc as reqd.				
a)	100 mm x 100 mm x 60 mm deep	70.00	Nos.		
b)	180 mm x 100 mm x 60 mm deep	20.00	Nos.		
c)	200 mm x 150 mm x 60 mm deep	10.00	Nos.		
7	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	5/6 Amp switch	60.00	Nos.		
b)	15/16 Amp. switch	20.00	Nos.		
c)	3 Pin 5/6 Amp. socket outlet	60.00	Nos.		
d)	6 Pin 15/16 Amp. socket outlet.	20.00	Nos.		
e)	Telephone socket / jack outlet	6.00	Nos.		
8	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	30.00	Nos.		
9	Supplying and fixing brass batten/ angle holder including connection etc. as required.	10.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
10	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
a)	100 A,30KA,FPMCCB	2.00	Nos.		
11	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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)	8 way (4 + 24), Double door	1.00	Nos.		
12	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	40.00	Nos.		
b)	Double pole	2.00	Nos.		
13	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	2.00	Nos.		
14	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.	2.00	Set		
15	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	60.00	Mtr.		

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16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	30.00	Mtr.		
17	Supplying and making indoor end termination with brass compression gland, aluminum lugs for following size of PVC insulated & PVC sheathed/XLPE aluminum cable of 1.1kV grade as reqd.				
a)	3½ X 35 sq. mm (32mm)	2.00	Nos.		
18	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, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	4.00	Nos		
19	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
a)	50 mm	31.00	Mtr.		
20	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	10.00	Each		
21	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	Fan regulator switch type dimmer	7.00	Nos.		

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22	S & F 40 amp to 63 amp rating 240 volts 'C' curve 10 kA MCB of following pole in the existing MCB DB complete with connection, testing & commissioning etc as reqd. (legrand)				
a)	Four Pole	2.00	Nos.		
23	Supply and fixing of following 20W LED Tube with fitting , Surface and wall mounted LED batten, extruded aluminium housing provided for efficient heat dissipation with polycarbonate diffuser & integrated electronic driver.	25.00	Nos.		
24	S/F testing commissioning of street light New generation energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED cat no. ENDURACITYLINERNEXGENSL48WLED757SASYB OPC as lighting source and lens embedded PC cover with IP66 protection and impact resistance of IK07. make:havells or its equivalent, on the existing street light pole complete as required.	4.00	Nos.		
25	Supplying & Laying of one no. XLPE sheathed aluminum conductor steel armoured power cable of size 3-1/2x35 sq.mm. 1.1kV grade in following manners.				
a)	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	50.00	Mtr.		
b)	In pipe	5.00	Mtr.		
c)	In open duct	5.00	Mtr.		
d)	On surface with MS clamp	5.00	Mtr.		
26	Supply and laying of HDPE pipe 32mm inner dia ISI mark 2 mm thick direct				
a)	In Ground I/c excavation, sand cushioning protective covering, refilling as reqd.	20.00	Mtr.		

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b)	In existing Pipe	10.00	Mtr.		
c)	Fixing on surface with MS clamp	10.00	Mtr.		
d)	In existing open duct	10.00	Mtr.		
27	Fixing internet rack / Telephone DP suitable etc from store to site as reqd complete.	5.00	Nos.		
28	Supply, Installation, testing & commissioning of AC ceiling fan of following sweep 220 volts without regulator I/c wiring the down rods of standard length up to 30 cm with 1.5 sq.mm. PVC insulated copper conductor single core cable etc as reqd.				
a)	1200 mm	7.00	Nos.		
29	Supplying and drawing of following sizes of FRLSH PVC insulated copper conductor, 3 core round cable of following size in the existing surface/ recessed steel/ PVC conduit as required.				
a)	1.5 sqmm	15.00	Mtr.		
30	S & F connecting and commissioning mounting of MCCB enclosure box suitable for MCCB's 125Amp in surface/ recess i/c the wall and making good the same in case of recessed as reqd.	2.00	Nos.		
31	Drawing of optical cable enhanced cat 5/cat 6/telephone/ networking /power cable in existing steel conduit pipe/GI /HDPE pipe including numbering of networking wire from room to rack as reqd.	200.00	Mtr.		
32	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	902.00	Sq.inch		
33	Fixing of RJ-45 modular box with cover plate or I/o box for internet on surface/ recessed cutting the wall making good the same as required. (box and cover plate will be supplied by dept.)	10.00	Nos.		
	Total Rs.				