

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**

**Tender Notice No. 55 /IWD/ED/283**

**SCHEDULE OF QUANTITY**

Name of work: Redevelopment of entrance gate with required infrastructure at Shivli gate (SH: Electrical Work).

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Supplying & Laying of one no. XLPE sheathed aluminum conductor steel armoured power cable of size 2 x 6 sq.mm. 1.1kV grade in following manners.				
a)	Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	90.00	Mtr.		
b)	In pipe	30.00	Mtr.		
c)	In open duct	10.00	Mtr.		
2	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)	2x6 sq.mm.	16.00	Nos.		
3	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and refilling etc as required				
a)	50 mm	40.00	Mtr.		
4	Supply and laying of HDPE pipe ISI mark of 25 mm (8Kg / cm <sup>2</sup> ) size inner dia, 2mm thick l/c cartage loading & unloading etc. as reqd.				
a)	Direct in ground l/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	220.00	Mtr.		
5	Laying UTP cable enhanced cat 5/cat 6 cable in existing steel conduit pipe/GI pipe/ raceway / RCC pipe as reqd. the cost shall also include numbering of networking wire from room to rack as reqd. (wire will be supplied by dept)	300.00	Mtr.		
6	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.	1.00	Set		
7	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	10.00	Mtr.		
8	P & F 6 SWG dia GI wire on surface or in recess for loop earthing as reqd.	120.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
9	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. grounding 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.	2.00	Nos.		
10	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.	8.00	Nos.		
11	Making masonry Pillar of size 450mmx450mmx600mm height above the ground level with bricks, cement and sand duly plastered on all sides. as reqd.	4.00	Nos.		
12	Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.	4.00	Each		
13	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'	12.00	Points		
14	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..	40.00	Mtr.		
b)	3 x 4 Sq.mm..	30.00	Mtr.		
15	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.	10.00	Mtr.		
16	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	35.00	Mtr.		
b)	25 mm	30.00	Mtr.		
17	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.				

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a)	100 mm x 100 mm x 60 mm deep	12.00	Nos.		
b)	180 mm x 100 mm x 60 mm deep	8.00	Nos.		
c)	200 mm x 150 mm x 60 mm deep	4.00	Nos.		
18	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	Single pole	2.00	Each		
19	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.		
20	Supplying, fixing, connecting, commissioning and testing of the following luminaries light fixtures complete with all accessories and with lamp as required complete.				
a)	1 X 20W LED tube with fitting Cat. No. (BN 021C LED20S PSU CW GR S2) PHILIPS make or its equivalent approved make	4.00	Nos.		
b)	18W LED cat no. SM 251/261 Philips make or its equivalent approved make	4.00	Nos.		
c)	LED bulkhead fixture 10 Watt	4.00	Nos		
d)	40W LED postop lantern garden light	6.00	Nos		
21	S & F following piano type switch /socket on existing switch box/cover l/c connection etc as reqd.				
a)	5/6 Amp switch	5.00	Nos.		
b)	15/16 Amp. switch	2.00	Nos.		
c)	3 Pin 5/6 Amp. socket outlet	5.00	Nos.		
d)	6 Pin 15/16 Amp. socket outlet.	2.00	Nos.		
e)	Telephone socket / jack outlet	2.00	Nos.		
f)	Fan regulator socket type rotary step	1.00	Nos.		
22	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	12.00	Nos.		
23	Supply and installation of 400mm sweep AC 230/250 volts, 50 Hz wall mounting revolving fan with brackets etc complete.	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
24	Supply, Installation, testing & commissioning of AC ceiling fan of following sweep 220 volts without regulator l/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	1.00	Nos		
25	Supply installation testing and commissioning of 300 mm sweep metal body heavy duty, 900 RPM Exhaust fan with guard/ shutter and mounting arrangement etc as reqd.				
a)	300 mm	2.00	Nos.		
26	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	1.00	Nos.		
	<b>Total Rs.</b>				