

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 101/Elect./2019****SCHEDULE OF QUANTITY****Name of Work: Providing LED flood lights to the proposed badminton court, volley ball court and basket ball court at Hostel No. 13 IIT Kanpur.**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Numbering of pole / ceiling fan/ fluorescent fitting as required.	22.00	Nos.		
2	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	20.00	Nos.		
b)	Double pole	6.00	Nos.		
3	Supplying and fixing 40 amps to 63 amps rating, 240/415 volts, "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)	Triple pole and neutral	4.00	Nos.		
4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	8.00	Nos.		
5	Providing and fixing 6SWG dia GI wire on surface or in recess for loop earthing along with existing surface/recess conduit/ submain wiring/cable as required.	280.00	Mtr.		
6	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	500.00	Mtr.		
7	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				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a)	40mm	60.00	Mtr.		
b)	50mm	30.00	Mtr.		
8	Supplying and Laying of one no. PVC insulated and PVC sheathed/XLPE aluminium conductor steel armoured cable of size 2x10 sqmm, 1.1kV grade as reqd in following manners.				
a)	In Ground I/c excavation, sand cushioning protective covering, refilling as reqd.	120.00	Mtr.		
b)	Fixing on surface with MS clamp	10.00	Mtr.		
c)	In existing Pipe	10.00	Mtr.		
d)	In existing open duct	60.00	Mtr.		
9	Supplying and Laying of one no. PVC insulated and PVC sheathed/XLPE aluminium conductor steel armoured cable of size 2x16 sqmm, 1.1kV grade as reqd in flowing manners.				
a)	In Ground I/c excavation, sand cushioning protective covering, refilling as reqd.	280.00	Mtr.		
b)	Fixing on surface with MS clamp	10.00	Mtr.		
c)	In existing Pipe	20.00	Mtr.		
d)	In existing open duct	120.00	Mtr.		
10	Supplying and Laying of one no. PVC insulated and PVC sheathed/XLPE aluminium conductor steel armoured cable of size 3.5 C x 35 sqmm, 1.1kV grade as reqd in flowing manners.				
a)	In Ground I/c excavation, sand cushioning protective covering, refilling as reqd.	190.00	Mtr.		
b)	Fixing on surface with MS clamp	10.00	Mtr.		
c)	In existing Pipe	10.00	Mtr.		
d)	In existing open duct	10.00	Mtr.		
11	Supplying and Laying of one no. PVC insulated and PVC sheathed/XLPE aluminium conductor steel armoured cable of size 3.5C x 95 sqmm, 1.1kV grade as reqd in flowing manners.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a)	In Ground I/c excavation, sand cushioning protective covering, refilling as reqd.	170.00	Mtr.		
b)	Fixing on surface with MS clamp	10.00	Mtr.		
c)	In existing Pipe	10.00	Mtr.		
d)	In existing open duct	10.00	Mtr.		
12	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 10 sq. mm (19mm)	8.00	Sets		
b)	2 X 16 sq. mm (22mm)	30.00	Sets		
c)	3 1/2 c X 35 sq. mm.	8.00	Sets		
d)	3 1/2 c X 95 sq. mm.	4.00	Sets		
13	Supplying and erection of ST pole 11 mtr. long (410-SP-33) with base plate 6mm thick and 300 mm x 300mm x 6mm size & cap i/c CC foundation complete 1:3:6 (1 cement:3 coarse sand:6 stone aggr. 40mm size). duly painted with 2 coats of good quality aluminium paint etc. as required.	22.00	Nos.		
14	Supplying,fixing,testing commissioning of energy saving,environmental friendly,long life,exclusive innovative die cast aluminium IP 65 with high poer LEDs as light source. following LED flood light make Philips, having symmetric optics or its equivalent, on the existing pole complete as required.				
a)	200W LED flood light lamp Ca. no.BVP 410 LED 215 CW HE NB FG S4 XTFCL make philips or its equivalent	8.00	Nos.		
b)	120W LED flood light lamp Ca. no.BVP LED 124 CW HE AK55' FG XTFCL S4 make PHILIPS or its equivalent.	20.00	Nos.		
15	Supply and laying of HDPE pipe 32mm inner dia ISI mark 2 mm thick direct				
a)	In open duct	35.00	Mtrs.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
16	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.	30.00	Nos.		
17	Supplying and Fixing 35 x 35 x 5 mm size angle iron in required shape and size i/c cutting, welding, painting etc. as reqd..	100.00	Mtr.		
18	Supply and drawing FRLS PVC insulated 3 core round cable of 1.5 Sq.mm. size for connection of equipments / exhaust fan & other work as reqd.	340.00	Mtr.		
19	Providing brick work (in width 225 mm or more) with F.P.S. bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) at all levels.	1.00	cum		
20	Providing 15 mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.	5.00	sqm		
21	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc. including form work etc. as required	1.00	cum		
22	Fabricating, supplying & fixing of box of required size made out of 2mm thick CRCA sheet duly powder coated & openable from top - bottom or front as required & fixing the same complete as required.	250.00	kg.		
	Total Rs.				