

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 87/Elect./2019****SCHEDULE OF QUANTITY****Name of Work: Providing LED light in cricket practice pitch at main field.****Name of the Contractor**

<b>S. No</b>	<b>Description of Items</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate in Figures in Rupees</b>	<b>Amount</b>
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)	3 x 2.5 sq. mm	300.00	Mtr.		
2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2.00	Each.		
3	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a)	8 way (4+24), double door	1.00	Each.		
4	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	24.00	Each.		
5	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection / termination with GI thimble etc. as required.	100.00	meter		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
6	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 meter 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 50 mm)	20.00	meter		
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)	6.00	Each.		
b)	3½ X 25 sq. mm (28mm)	2.00	Each.		
8	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 dia	10.00	meter		
9	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)	Four pole	1.00	Each.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
10	Supply installation testing and commissioning of Tango G3 LED Flood light of 320W having lumen pack of min 36000 lumen O/P, Luminaire/system efficacy: 110Lm/W,CCT and CRI: 5700K(CW) and CRI >70 respectively, System life/lumen maintenance: Up to 50k hours (L70B50) @ Ta 35deg (system = light modules & drivers),Light distributions / optics: Symmetrical wide Exposed Optic lenses. Optic material: plastic (PC),Operating temperature range: -40 to + 50°C, Electrical insulation class: Class I,IK 08, Degree of protection IP66, System surge protection: 10kV/kA, Housing Material / Finishing: The luminaires housing shall be made of non-corrosive high pressure ADC with corrosion resistant powder coating 1.5m Flying wire; U-shaped bracket; RAL 9007 (Housing) Anti-dust exposed Lens, Luminaire mounting: Universal installation,Size Luminaire (mm): (L x W x H) 591 x 561 x 64 mm, Certification: IEC60598 LM79 & LM80 test report should be approved from UL/ government of India authorised Lab.				
a)	Street Light luminaire CAT no BVP383 LED360/CW 320W 220-240V SWB IN Philips Make	32.00	Each.		
11	Dismantling, disconnecting old damaged unserviceable flood light fittings from pole/ wall as required and depositing in sectional store.	12.00	Each.		
12	Supplying and Fixing 50 mm. x 50 mm x 6 mm angle iron in required shape and size i/c cutting, welding, painting etc. as reqd.	20.00	meter		
13	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		
14	Providing 15 mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.	15.00	sq.m		

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15	Digging cable trench, lifting brick & cable for locating fault and relaying the cable i/c refilling the trench, extra sand if required shall be i/c in the item of as required.	80.00	meter		
16	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.	30.00	Kg.		
	<b>Total Rs.</b>				