

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 102/Elect./2019****SCHEDULE OF QUANTITY****Name of Work: Modification & rewiring of electrical installation & retrofit of FL fitting with LED at central school at IIT Kanpur.**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 Sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.				
a	Group C	660.00	Nos		
2	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	1000.00	Mtr		
b)	3 x 4.0 sq. mm	800.00	Mtr		
c)	3 x 6.0 sq. mm	500.00	Mtr		
d)	3 x 10.0 sq. mm	450.00	Mtr		
e)	3 x 16.0 sq. mm	160.00	Mtr		
3	Supply and drawing telephone wire of 2 pair 0.50 mm annealed tinned copper conductor PVC insulated unsheathed twisted wire in existing/ surface concealed conduit as reqd. including numbering the wires at both the ends.	200.00	Mtr.		
4	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)	25 mm	20.00	Mtr.		
b)	32 mm	30.00	Mtr.		
5	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a)	20 x 12 mm	500.00	Mtr.		

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b)	25 x 16 mm	400.00	Mtr.		
c)	32x 16 mm	300.00	Mtr.		
d)	38 x 16 mm	150.00	Mtr.		
6	Providing and fixing casing and capping in place of defective and damaged wooden batten including dismantling and relaying of wire as required complet.				
a)	20 x 12 mm	50.00	Mtr.		
b)	25 x 16 mm	100.00	Mtr.		
c)	32x 16 mm	50.00	Mtr.		
7	S & F metal box of following sizes (nominal) on surface or recess with suitable size of phenolic laminated sheet cover in the front i/c painting etc as reqd.				
a)	180 mm x 100 mm x 60 mm deep	50.00	Nos.		
b)	200 mm x 150 mm x 60 mm deep	50.00	Nos.		
c)	250 mm x 300 mm x 60 mm deep	20.00	Nos.		
d)	250 mm x 300 mm x 100 mm deep	50.00	Nos.		
8	Supply and installation of 20W linear 4ft LED integrated batten made of Epoxy powder coated white extruded aluminium channel housing for efficient heat dissipation. Milky white, special polycarbonate diffuser, for glare free efficient light distribution and Elegantly designed white coloured ABS end caps. High efficiency long life LED package in integral module with lumen efficacy > 90 Lm/W and viewing angle of 120° to ensure better uniformity. Powered by an integral electronic LED driver (SMPS based constant current supply) with output short circuit protection, surge protection. Can be fixed directly into the wall/ ceiling by means of mounting SS clips provided with the fixture. Lumen Output of 1800 lumens. CRI >80, THD <10% and PF>0.95,IP20 . Life class of 50,000 hrs @ L70, Operating Temperature:-10 TO +45 DEG.C; Input Supply Voltage Range:140-270 V, Frequency :50-60 HZ; Internal Surge Protection:3 KV; Protection : Reverse Polarity, Open & Short Circuit. Similar to Havells Endura linear Neo Cat. No. ENDURALINEARNEOBS20WLED865SPCWH or its equivalent approved make.	375.00	Nos.		

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9	Supplying installation connecting and commissioning of Outdoor street light fittings 1 X 48W LED Phillips make or its equivalent.	10.00	Nos.		
10	Supply & retrofitting 20 watt LED lamp in existing fittings and connection etc. as reqd. Phillips make or its equivalent.	700.00	Nos.		
11	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc as reqd.				
a)	5/6 amps switch	300.00	Nos		
b)	2 way 5/6 amps switch	10.00	Nos		
c)	15/16 amps switch	60.00	Nos		
d)	3 pin 5/6 amps socket outlet	100.00	Nos		
e)	6 pin 15/16 amps socket outlet	60.00	Nos		
f)	Telephone socket outlet	5.00	Nos		
g)	Fan regulator socket type rotary step	200.00	Nos.		
h)	Bell push	2.00	Nos.		
12	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	100.00	Nos.		
13	Dismantling and refixing of switch / socket /regulator l/c cleaning, connecting, commissioning etc as reqd.	400.00	Nos.		
14	Supplying and fixing brass batten/ angle holder including connection etc. as required.	5.00	Nos.		
15	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	1.00	Nos.		
16	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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, Double door	4.00	Nos.		
b)	12 way, Double door	12.00	Nos.		
c)	16 way, Double door	6.00	Nos.		

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17	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)	4 way (4 + 12), Double door	2.00	Nos.		
18	S & F 5 amp to 32 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)	Single pole	300.00	Nos		
b)	Triple pole	1.00	Nos		
19	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)	Single pole & Neutral	22.00	Nos.		
b)	Triple pole & Neutral	1.00	Nos.		
20	Earthing with G.I. earth pipe ,4.5 mtr long, 40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement etc. with charcoal/ coke and salt as required.	2.00	Nos		
21	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	20.00	Mtr.		
22	Supply & fixing connecting , commissioning & testing of ceiling fan size 1400mm without regulator and ball bearing type including wiring the down rod of stadard length (upto 30 cm) with 1.5 sqmm PVC insulated copper wire single core cable complete as reqd.				
a)	1200mm sweep.	211.00	Nos		
23	Supply and fixing Fan hook I/C cutting the slab and fixing with the reinforcement and making damage, painging etc. as the same.	11.00	Nos		
24	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.	10.00	Nos		

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25	Supply & laying of HDPE pipe ISI mark of size 40mm inner dia, 8Kg / cm ² and minimum 2mm thick I/c cartage loading & unloading etc. as reqd.				
a)	In Ground I/c excavation, sand cushioning protective covering & refilling the trench with dressing of earth etc. as reqd.of earth as reqd.	100.00	Mtr		
b)	Fixing on surface with MS clamp	50.00	Mtr.		
c)	In existing pipe	5.00	Mtr.		
d)	In existing open duct.	5.00	Mtr.		
26	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)	500.00	Nos		
27	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.)	20.00	Nos		
28	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	50000.00	Sq.cm.		
29	Dismantling and refixing of shisham wood board of any sizess on surface or in recessed etc as reqd.	60.00	Nos.		
	Total Rs.				