

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 94/IWD/ED/343****SCHEDULE OF QUANTITY**

Name of work: Electrical maintenance work at south side residence as per enclosed complaints.

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 conduit including dismantling as required.				
a)	Group 'A'	5.00	Points		
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)	1 x 1.5 Sq.mm..	13.00	Mtr.		
b)	3 x 1.5 Sq.mm..	83.00	Mtr.		
c)	2 x 4 Sq.mm..	2.00	Mtr.		
d)	3 x 4 Sq.mm..	82.00	Mtr.		
e)	3 x 6 Sq.mm..	30.00	Mtr.		
3	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	5/6 Amp switch	74.00	Nos.		
b)	2 way 5/6 A switch	5.00	Nos.		
c)	15/16 Amp. switch	17.00	Nos.		
d)	3 Pin 5/6 Amp. socket outlet	37.00	Nos.		
e)	6 Pin 15/16 Amp. socket outlet.	15.00	Nos.		
f)	Bell push	3.00	Nos.		

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g)	Telephone socket / jack outlet	3.00	Nos.		
4	Supply, fixing, following modular type switch / socket on existing modular plate & switch box including connectins but excluding modular plate etc. as reqd.				
a)	5/6 Amp switch	49.00	Nos.		
b)	15/16 Amp. switch	29.00	Nos.		
c)	3 Pin 5/6 Amp. socket outlet	14.00	Nos.		
d)	6 Pin 15/16 Amp. socket outlet.	6.00	Nos.		
e)	Bell push	2.00	Nos.		
f)	Fan regulator socket type rotary step	13.00	Nos.		
5	S & F following size/modules, GI box along with modular base and cover plate for modular switches in recess etc.as required.				
a)	1/2 module	3.00	Nos.		
b)	3 module	3.00	Nos.		
c)	4 module	4.00	Nos.		
d)	6 module	3.00	Nos.		
e)	8 module	3.00	Nos.		
f)	12module	3.00	Nos.		
6	S/F following modular base & cover plate on existing modular metal boxes etc. as reqd.				
a)	1 or 2 module	2.00	Nos.		
b)	3 module	1.00	Nos.		
c)	4 module	1.00	Nos.		
d)	6 module	1.00	Nos.		
e)	8 module	1.00	Nos.		

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f)	12 module	3.00	Nos.		
7	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.	32.00	Mtr.		
8	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	5.00	Nos.		
9	Supplying and fixing brass batten/ angle holder including connection etc. as required.	13.00	Nos.		
10	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	1.00	Nos.		
11	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required	5.00	Nos.		
12	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, 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)	12 way , Double door	1.00	Nos.		
b)	16-way , Double door	2.00	Nos.		
13	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	14.00	Nos.		
14	S & F following rating double pole (single phase & neutral) 240 volts RCCB (ELCB), having sensitivity current up to 30 mA in the existing MCB DB complete with connection, testing & commissioning etc as reqd.				
a)	40 Amp	2.00	Nos.		

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b)	63 Amp	2.00	Nos.		
15	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 A 415 V "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	2.00	Nos.		
16	Supply, Installation,Commissioning Testing andof 1200 mm sweep,BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) class of insulation: B, 3 nos.blades, 30 cm longdown rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85,Air delivery minimum 215 CMM,350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remainingaccessories including safety pin,nut bolts, washers, temperature rise=75 degree C (max.),insulation resistance more than 2 megaohm,suitable for 230 V, 50 Hz, singlephase AC Supply, earthing etc.complete as required.				
a)	1200 mm	10.00	Nos.		
17	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)	74.00	Mtr.		
18	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.)	2.00	Nos.		
19	S & F wood board of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in the front etc as reqd.				
a)	100 mm x 100 mm	18.00	Nos.		
b)	175 mm x 100 mm	12.00	Nos.		
c)	200 mm x 150 mm	7.00	Nos.		
d)	200 mm x 250 mm	1.00	Nos.		

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e)	250 mm x 300 mm	5.00	Nos.		
20	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a)	20 x 12 mm	21.00	Mtr.		
b)	25 x 16 mm	31.00	Mtr.		
c)	32x 16 mm	6.00	Mtr.		
d)	38 x 16 mm	30.00	Mtr.		
21	Providing and fixing casing and capping in place of defective and damaged wood batten including dismantling of betten and wire & relaying of wires as required complet.				
a)	20 x 12 mm	30.00	Mtr.		
b)	25 x 16 mm	20.00	Mtr.		
c)	32x 16 mm	20.00	Mtr.		
d)	38 x 16 mm	20.00	Mtr.		
22	Dismantling and refixing of wood board of any size on surface or in recessed etc as reqd.	12.00	Nos.		
23	Dismantling damaged DB/TPN Switches/ loose wire boxes along with all accessories and depositing the same in the store as reqd.	3.00	Nos.		
24	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	2338.00	Sq.cm		
25	Dismantling and refixing of switch / socket /regulator I/c cleaning, connecting, commissioning etc as reqd.	82.00	Nos.		
26	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	1400 mm	1.00	Nos.		
27	Supply and installation of 400mm sweep AC 230/250 volts, 50 Hz wall mounting revolving fan with brackets etc complete.(make Havells)	2.00	Nos.		

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28	Supply & fixing of 12 W surface mounted light ec.as reqd. make Havells OR equivalent approved make.	15.00	Nos.		
29	Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.	12.00	Nos.		
30	Supply and laying of HDPE pipe ISI mark of 25 mm (8Kg / cm ²) size inner dia, 2mm thick I/c cartage loading & unloading etc. as reqd.				
a)	Direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b)	In pipe	2.00	Mtr.		
c)	In open duct	2.00	Mtr.		
d)	On surface with MS clamp	2.00	Mtr.		
31	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	Fan regulator socket type rotary/dimmer	11.00	Nos.		
b)	Fan regulator dimmer type 650 W	1.00	Nos.		
32	Supplying, fixing, connecting, commissioning and testing of the following luminaries light fixtures complete with all accessories and without lamp as required complete.				
a)	Drum light cat No.03 PV / 02 decon make or equivalent.	2.00	Nos.		
b)	Wall bracket Decon make cat. no. 0553 or equivalent.	2.00	Nos.		
c)	Bulk head fitting suitable for 60W GLS lamp, Philips make or equivalent.	6.00	Nos		
d)	Wall light stylo fitting 14W Havells make or equivalent.	2.00	Nos		
33	Supplying, fixing, connecting, commissioning and testing of the following luminaries light fixtures complete with all accessories and with lamp as required complete.				
a)	LED tube light fitting (1 X 18 / 20 Watt. LED) surface mounting luminaires wipro make	2.00	Nos.		
34	Supply / fixing and connecting & commissioning following CFL / lamps in existing fitting as reqd.(Make- Phillips)				

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a)	LED bulb 10 W	54.00	Nos.		
b)	LED tube light 18 / 20 Watt.	2.00	Nos.		
35	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	7.00	Nos.		
b)	Double pole	2.00	Nos.		
c)	Triple Pole	2.00	Nos.		
d)	Four Pole	2.00	Nos.		
36	Supply, Installation of exhaust fan, 900 rpm 220 volt AC, 50 Hz of following sweep in the existing opening I/c connection, testing, commissioning etc as reqd.				
a	300 mm	4.00	Nos.		
b)	450 mm	1.00	Nos.		
37	Dismantling & refixing of any size fan from normal height				
a	ceiling fan	3.00	Nos.		
38	Supply, fixing, connecting, commissioning & testing of 40 watt LED Post top lantern light complete with all accessories including rag bolts with washer Cat No. LPTO-40-CDL/M Crompton make or its equivalent make etc as reqd.	2.00	Nos.		
	Total Rs.				