

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Tender Notice No. 97 /IWD/ED/552

SCHEDULE OF QUANTITY

Name of Work: Electrical work for
 Part-A
 Electrical maintenance work at south side residences as per enclosed complaints.
 Part-B
 Electrical Maintenance work at North side residences as per enclosed complaints. Part- C
 Electrical Maintenance work at North side residences as per enclosed complaints.

Name of the Contractor	
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S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
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	Part-A				
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 'B'	16.00	points		
2	Supplying & drawing following sizes of FRLS PVC				
a	1 x 1.5 Sq.mm..	10.20	Mtr.		
b	3 x 1.5 Sq.mm..	73.00	Mtr.		
c	3 x 4 Sq.mm..	145.00	Mtr.		
3	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a	25 mm	65.00	Mtr.		
4	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a	5/6 Amp switch	35.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	2 way 5/6 A switch	8.00	Nos.		
c	15/16 Amp. switch	10.00	Nos.		
d	3 Pin 5/6 Amp. socket outlet	15.00	Nos.		
e	6 Pin 15/16 Amp. socket outlet.	7.00	Nos.		
f	Bell push	3.00	Nos.		
5	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a	5/6 Amp switch	2.00	Nos.		
b	15/16 Amp. switch	2.00	Nos.		
c	6 Pin 15/16 Amp. socket outlet.	2.00	Nos.		
d	Bell push	1.00	Nos.		
6	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	4.00	Nos.		
7	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	1.00	Nos.		
8	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
a	1 or 2 Module	2.00	Nos.		
b	3 Module	1.00	Nos.		
9	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	1.00	Nos.		
10	Supplying and fixing brass batten/ angle holder including connection etc. as required.	15.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
11	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	2.00	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).				
b	12-way , Double door	1.00	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	10.00	Nos.		
b	Double pole	1.00	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	3.00	Nos.		
b	63 Amp	1.00	Nos.		
15	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	4.00	Nos.		
16	Fixing of any type of lamps in the existing fittings as reqd.	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
17	Drawing of optical cable enhanced cat5/cat6/telephone/networking/power cable in existing steel conduit pipe/GI/HDPE pipe including numbering of networking wire from room to rack as reqd.	7.00	Mtr.		
18	S & F wood board of following sizes on surface or in recessed with suitable size of phenolic laminated sheet cover in the front etc as reqd.				
a	100 mm x 100 mm	14.00	Nos.		
b	175 mm x 100 mm	7.00	Nos.		
c	200 mm x 150 mm	1.00	Nos.		
d	200 mm x 250 mm	2.00	Nos.		
19	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a	20 x 12 mm	67.32	Mtr.		
b	25 x 16 mm	8.41	Mtr.		
c	32x 16 mm	15.07	Mtr.		
20	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a	Fan regulator socket type rotary step	10.00	Nos.		
21	Dismantling and refixing of wood board of any size on surface or in recessed etc as reqd.	12.00	Nos.		
22	Supply fixing connecting & commissioning of following rating 3 pin Plug top Anchor makeas reqd complete.				
a	5/6 Amp	1.00	Nos.		
23	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	7789.00	Sq.cm		

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 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	1200 mm	2.00	Nos.		
b	1400 mm	3.00	Nos.		
25	Dismantling and refixing of switch / socket /regulator I/c cleaning, connecting, commissioning etc as reqd.	28.00	Nos.		
26	Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.	14.00	Nos.		
27	Repairing , cleaning, testing & commissioning box /industiral type /decorative type fitting I/c replacement of all parts if reqd.	1.00	Nos.		
28	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.	3.00	Nos.		
b	Wall bracket Decon make cat. no. 0553 or equivalent.	2.00	Nos.		
c	Bulk head fitting suitable for 100W GLS lamp, Philips make or equivalent.	6.00	Nos		
Part-B					
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.				

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
a)	Group 'A'	4.00	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..	9.00	Mtr.		
b)	2 x 1.5 Sq.mm..	20.00	Mtr.		
c)	3 x 1.5 Sq.mm..	35.00	Mtr.		
d)	2 x 4 Sq.mm..	1.00	Mtr.		
e)	3 x 4 Sq.mm..	62.00	Mtr.		
f)	3 x 6 Sq.mm..	15.00	Mtr.		
3	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.	60.00	Mtr.		
4	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	5/6 Amp switch	60.00	Nos.		
b)	2 way 5/6 amp switch	5.00	Nos.		
c)	15/16 Amp. switch	15.00	Nos.		
d)	3 Pin 5/6 Amp. socket outlet	23.00	Nos.		
e)	6 Pin 15/16 Amp. socket outlet.	15.00	Nos.		
f)	Telephone socket / jack outlet	5.00	Nos.		
g)	Call bell push	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
5	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	6.00	Nos.		
6	Supplying and fixing brass batten/ angle holder including connection etc. as required.	22.00	Nos.		
7	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	1.00	Nos.		
8	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.		
9	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	13.00	Nos.		
10	S & F following rating double pole (single phase & neutral) 240 volts RCCB (ELCB), having sensivity current up to 300 mA in the existing MCB DB complete with connection,testing & commissioning etc as reqd.				
a)	63 Amp	2.00	Nos.		
11	Supply / fixing and connecting & commissioning following CFL / lamps in existing fitting as reqd.(Make- Phillips)				
a)	LED bulb 7/10 W	13.00	Nos.		
b)	LED tube light 18 / 20 Watt.	15.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
12	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a)	20 x 12 mm	130.00	Mtr.		
b)	25 x 16 mm	12.18	Mtr.		
c)	32x 16 mm	10.16	Mtr.		
d)	38 x 16 mm	20.00	Mtr.		
13	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.	4.00	Nos.		
c)	Bulk head fitting suitable for 60W GLS lamp, Philips make or equivalent.	9.00	Nos		
14	Supplying, fixing, connecting and commissioning electronic ballast suitable for following lamps in existing fitting as reqd.				
a)	1 x 36 W	2.00	Nos.		
15	S & F wooden board of following sizes on surface or in recessed with suitable size of phenolic laminated sheet cover in the front etc as reqd.				
a)	100 mm x 100 mm	16.00	Nos.		
b)	175 mm x 100 mm	11.00	Nos.		
c)	200 mm x 150 mm	2.00	Nos.		
d)	200 mm x 250 mm	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
16	Laying UTP/ RJ-11/ RJ-6/ Telephone wire/ cable in existing steel conduit pipe/ GI pipe/ HDPE pipe as reqd. (The cost shall also include numbering of networking wire from room to rack as reqd.)	17.00	Mtr.		
17	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.		
18	Dismantling and refixing of wooden board of any sizess on surface or in recessed etc as reqd.	6.00	Nos.		
19	Supply & fixing Fan regulator socket type rotary step as req.	3.00	Nos.		
20	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)	1200 mm	4.00	Nos		
b)	1400 mm	2.00	Nos.		
21	Dismantling and refixing of switch / socket /regulator I/c cleaning, connecting, commissioning etc as reqd.	15.00	Nos.		
22	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	1744.00	Sq.cm		
23	Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.	4.00	Nos.		
24	Dismantling & refixing of any size fan from normal height				
a)	ceiling fan	2.00	Nos.		
Part-C					

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'	10.00	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..	15.00	Mtr.		
b)	2 x 1.5 Sq.mm..	20.00	Mtr.		
c)	3 x 1.5 Sq.mm..	35.00	Mtr.		
d)	2 x 4 Sq.mm..	15.00	Mtr.		
e)	3 x 4 Sq.mm..	30.00	Mtr.		
f)	3 x 6 Sq.mm..	25.00	Mtr.		
3	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.	80.00	Mtr.		
4	S & F following piano type switch /socket on existing switch box/cover I/c connection etc as reqd.				
a)	5/6 Amp switch	50.00	Nos.		
b)	2 way 5/6 amp switch	10.00	Nos.		
c)	15/16 Amp. switch	15.00	Nos.		
d)	3 Pin 5/6 Amp. socket outlet	23.00	Nos.		
e)	6 Pin 15/16 Amp. socket outlet.	15.00	Nos.		
f)	Telephone socket / jack outlet	5.00	Nos.		
g)	Call bell push	5.00	Nos.		
5	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/ wooden block including connection etc. as reqd.	10.00	Nos.		
6	Supplying and fixing brass batten/ angle holder including connection etc. as required.	25.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
7	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	2.00	Nos.		
8	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)	8-way , Double door	2.00	Nos.		
b)	12-way , Double door	2.00	Nos.		
9	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	10.00	Nos.		
10	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	63 Amp	1.00	Nos.		
11	S & F following rating double pole (single phase & neutral) 240 volts RCCB (ELCB), having sensivity current up to 300 mA in the existing MCB DB complete with connection,testing & commissioning etc as reqd.				
a)	40 Amp	2.00	Nos.		
b)	63 Amp	1.00	Nos.		
12	Supply / fixing and connecting & commissioning following CFL / lamps in existing fitting as reqd.(Make- Phillips)				
a)	LED bulb 7/10 W	13.00	Nos.		
b)	LED tube light 18 / 20 Watt.	15.00	Nos.		
13	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a)	20 x 12 mm	100.00	Mtr.		
b)	25 x 16 mm	15.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
c)	32x 16 mm	12.00	Mtr.		
d)	38 x 16 mm	20.00	Mtr.		
14	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.	4.00	Nos.		
c)	Bulk head fitting suitable for 100 W GLS lamp, Philips make or equivalent.	9.00	Nos		
15	Supplying, fixing, connecting and commissioning electronic ballast suitable for following lamps in existing fitting as reqd.				
a)	1 x 36 W	2.00	Nos.		
16	S & F wooden board of following sizes on surface or in recessed with suitable size of phenolic laminated sheet cover in the front etc as reqd.				
a)	100 mm x 100 mm	16.00	Nos.		
b)	175 mm x 100 mm	11.00	Nos.		
c)	200 mm x 150 mm	2.00	Nos.		
d)	200 mm x 250 mm	4.00	Nos.		
17	Laying UTP/ RJ-11/ RJ-6/ Telephone wire/ cable in existing steel conduit pipe/ GI pipe/ HDPE pipe as reqd. (The cost shall also include numbering of networking wire from room to rack as reqd.)	100.00	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	Dismantling and refixing of wooden board of any sizess on surface or in recessed etc as reqd.	10.00	Nos.		
20	Supply & fixing Fan regulator socket type rotary step as req.	8.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
21	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)	1200 mm	2.00	Nos		
b)	1400 mm	2.00	Nos.		
22	Dismantling and refixing of switch / socket /regulator I/c cleaning, connecting, commissioning etc as reqd.	55.00	Nos.		
23	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	1857.00	Sq.cm		
24	Locating fault in wiring rectifying removing & restoring supply the same & making good the damages etc as reqd.	4.00	Nos.		
25	Dismantling & refixing of any size fan from normal height				
a)	ceiling fan	5.00	Nos.		
	Total Rs. (Part-A ,Part-B & Part- C)				