

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 67/Elect./2018****SCHEDULE OF QUANTITY****Name of Work: Zonal contract for petty electrical works of academic area Phase-II (Zone-IV).**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a	Group C	8.00	Nos.		
2	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a	Group 'C'	5.00	Nos.		
3	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'	20.00	Nos.		
4	Supplying and 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	50.00	Mtr		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	3 X 1.5 Sq.mm	100.00	Mtr		
c	3 X 2.5 Sq.mm	50.00	Mtr		
d	2 X 4 Sq.mm	20.00	Mtr		
e	3 x 4 Sq.mm	70.00	Mtr		
f	3 X 6 Sq.mm	50.00	Mtr		
g	2 X 10 Sq.mm	10.00	Mtr		
h	3 X 10 Sq.mm	50.00	Mtr		
i	2 X 16 Sq.mm	50.00	Mtr		
j	3 X 16 Sq.mm	30.00	Mtr		
k	2 X 25 Sq.mm	50.00	Mtr		
5	Supply and drawing PVC insulated copper conductor (Flexible) 3 core round cable 1.5Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	20.00	Mtr.		
6	Supply and drawing PVC insulated copper conductor (Flexible) 3 core round cable 2.5 Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	50.00	Mtr.		
7	Supply and drawing PVC insulated copper conductor (Flexible) 4 core round cable 2.5 Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	10.00	Mtr.		
8	Supply and drawing PVC insulated copper conductor (Flexible) 3 core round cable 4.0 Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	10.00	Mtr.		
9	Supply and drawing PVC insulated copper conductor (Flexible) 4 core round cable 4.0 Sq.mm for connection of equipments / exhaust fan/AC & other work as reqd.	10.00	Mtr.		
10	Supplying and drawing following pair 0.5 Sq.mm FRLS PVC insulated copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as reqd.				
a	2 Pair	100.00	Mtr		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
11	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 reqd.				
a	20 mm	50.00	Mtr		
b	25 mm	50.00	Mtr		
c	32 mm	20.00	Mtr		
d	40 mm	5.00	Mtr		
12	Providing and fixing following sizes of PVC casing and capping on surface as reqd.				
a	20 x 12 mm	50.00	Mtr.		
b	25 x 16 mm	50.00	Mtr.		
13	Supplying, installation DLP mini- trunking 32mm x 12.5mm and accessories white-system with independent cover- without central partion etc. as reqd.	50.00	Mtr.		
14	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 12.5 mm				
a	End cap	5.00	Nos.		
b	Internal angle/ External angle	5.00	Nos.		
c	Changeable flat angle	5.00	Nos.		
d	Flat Junction	5.00	Nos.		
15	Supplying, installation DLP mini- trunking 32mm x 20mm and accessories white-system with independent cover- without central partion etc. as reqd.	100.00	Mtr.		
16	Supply and fixing of following items for plastic trunking accessories suitable for size 32 mm x 20 mm				
a	End cap	5.00	Nos.		
b	Internal angle/ External angle	10.00	Nos.		
c	Changeable flat angle	5.00	Nos.		
d	Flat Junction	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
17	Providing and fixing DLP plastic trunking of size 105 mm x 50 mm without cover on surface as reqd.	50.00	Mtr.		
18	Providing and fixing 85 mm width flexible cover of DLP plastic trunking. (size 105 mm x 50 mm.)	50.00	Mtr.		
19	Supply and fixing of following items for plastic trunking accessories suitable for size 105 mm x 50 mm.				
a	End cap	10.00	Nos.		
b	Internal angle.	10.00	Nos.		
c	External angle	5.00	Nos.		
d	Flat Junction	5.00	Nos.		
e	Changeable flat angle	5.00	Nos.		
f	Separation partitions	50.00	Mtr.		
g	cover joint	10.00	Nos.		
h	Base joint	10.00	Nos.		
20	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.	2.00	Nos.		
21	Supply & Laying of 32 mm (6Kg / cm <sup>2</sup> ) HDPE pipe ISI mark of 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	In ground i/c excavation sand cushioning protective covering, refilling of eath as reqd.	20.00	Mtr.		
b	Fixing on surface with MS clamp	10.00	Mtr.		
c	In existing pipe	5.00	Mtr.		
d	In existing open duct.	5.00	Mtr.		
22	Supply & Laying of 40 mm (6Kg / cm <sup>2</sup> ) HDPE pipe ISI mark of 2mm thick I/c cartage loading & unloading etc. as reqd.				
a	In ground i/c excavation sand cushioning protective covering, refilling of eath as reqd.	20.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
b	Fixing on surface with MS clamp	10.00	Mtr.		
c	In existing pipe	5.00	Mtr.		
d	In existing open duct.	5.00	Mtr.		
23	Extra for cutting and drilling hole & panting of down rod of G.I pipe,15 mm dia for ceiling fan etc as required.	10.00	Job		
24	Supplying & fixing 15 mm dia GI pipe for down rod for fixing of ceiling fans etc as reqd.	10.00	Mtr.		
25	S & F of following size of steel flexible pipe alongwith the accessories on surface etc as required.				
a	20 mm	10.00	Mtr.		
b	25 mm	10.00	Mtr.		
c	32 mm	15.00	Mtr.		
d	40 mm	5.00	Mtr.		
26	Earthing with GI earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (193GI JMV)	2.00	Set		
27	Earthing with Copper bonded earth electrode 50mm dia x 3 mtr length including earth enhancing compound (Jam Fill quality product) and PIT cover for earthing pit etc as reqd. (503 CBE JMV).	2.00	Set		
28	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.	1.00	Set		
29	Earthing with copper earth plate 600 mm X 600 mm X 3 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.	1.00	Set		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
30	Supplying and laying 25 mm X 5 mm G.I. strip at 0.50 metre below ground as strip earth electrode, including soldering etc. as required.	5.00	Mtr		
31	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	5.00	Mtr		
32	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10.00	Mtr		
33	Providing & fixing 25mm x 5mm GI strip on surface or in recess for connection etc. as reqd.	20.00	Mtr		
34	Providing and fixing 6 SWG dia G.I wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring cable/ cable as required.	50.00	Mtr		
35	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	5.00	Nos.		
36	S & F rotary drive kit complete with handle and padlock facility for 125 amp MCCB etc. as reqd.	1.00	Nos.		
37	Providing and fixing following rating and breaking capacity four pole 415V 50Hz MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc as required.				
a	125 Amp, 25 KA	2.00	Nos.		
b	200 Amp, 35/36 KA	1.00	Nos.		
c	250 Amp, 35/36 KA	1.00	Nos.		
d	400 Amp, 50 KA	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
38	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	6 Way, double door	2.00	Nos.		
b	8 Way, double door	2.00	Nos.		
c	12 Way, double door	2.00	Nos.		
39	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)				
a	4 way ( 4 + 12 ), Double door	2.00	Nos.		
b	6 way ( 4 + 18 ), Double door	1.00	Nos.		
c	8 way ( 4 + 24 ), Double door	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
40	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	4 way (4 + 12) Double door	2.00	Nos.		
b	8 way (4 + 24) Double door	1.00	Nos.		
c	12 way (4 + 36) Double door	1.00	Nos.		
41	Supplying and fixing following rating, 240 volts, 'C' series, minature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
a	Single Pole ( 5 Amp to 32 Amp )	20.00	Nos.		
b	Double Pole ( 5 Amp to 32 Amp )	5.00	Nos.		
c	Tripple Pole ( 5 Amp to 32 Amp )	5.00	Nos.		
d	Four Pole ( 5 Amp to 32 Amp )	2.00	Nos.		
e	Single Pole ( 40 Amp to 63 Amp )	5.00	Nos.		
f	Double Pole ( 40 Amp to 63 Amp )	5.00	Nos.		
g	Tripple Pole ( 40 Amp to 63 Amp )	5.00	Nos.		
h	Four Pole ( 40 Amp to 63 Amp )	5.00	Nos.		
42	Supplying and fixing following of size/modules, GI box along with modular base & cover plate for modular switches in recess etc as reqd.				
a	1 or 2 module (75mm x 75mm)	2.00	Nos.		
b	3 module (100mm x 75mm)	5.00	Nos.		



S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
c	4 module (125mm x 75mm)	5.00	Nos.		
d	6 module (200mm x 75mm)	5.00	Nos.		
e	8 module (125mm x 125mm)	5.00	Nos.		
f	12 module (200mm x 150mm)	5.00	Nos.		
43	S & F shisham 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	200 mm x 250 mm	5.00	Nos.		
b	200 mm x 300 mm	5.00	Nos.		
44	S&F connecting and commissioning independent mounting of MCCB enclosure suitable upto 200 amp MCCB as per approved make in surface/recess I/c cutting the wall and making good the same in case of recessed as per approved make etc as reqd.	2.00	Nos.		
45	S & F metal enclosure suitable for DP/FP MCB/ on surface or recessed etc as reqd.	10.00	Nos.		
46	Supply & fixing of 5 watt 1 feet long wall mounted LED light fitting etc.as reqd.	5.00	Nos		
47	Supply & fixing of 9 watt 2 feet long wall mounted LED light fitting etc.as reqd.	5.00	Nos		
48	S/F, connecting, testing and commissioning of 10 Watt LED bulkhead fitting IP65 surface mounting luminaires with suitable LED lamp and connection etc.as reqd.	5.00	Nos		
49	Supplying, fixing, connecting & commissioning of mirror /Black board ligh fitting 1x36w i/c suitable arrangement of fixing etc. as reqd.	2.00	Nos.		
50	Supply & retrofitting 18 watt LED PLL lamp in existing fitting and connection etc.as reqd	500.00	Nos.		
51	Supply & retrofitting 1 x 20 watt Tube LED lamp in existing fitting and connection etc.as reqd	900.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
52	S/F, connecting, testing and commissioning 1 x 20 watt LED tube fitting box type surface mounting/ceiling suspended luminaires suitable mounting rail for T-LED lamps with 1 No. 20 watt T-LED 4 feet long lamps and connection etc.as reqd	30.00	Nos.		
53	S/F, connecting, testing and commissioning 2 x 20 watt LED tube fitting box type surface mounting/ceiling suspended luminaires suitable mounting rail for T-LED 4 feet long lamps with 2 No. 20 watt T- LED lamps and connection etc.as reqd	10.00	Nos.		
54	S/F, connecting, testing and commissioning 18 watt LED recess mounted luminaires with diffuser suitable for moduler ceiling/POP/Gypsem ceiling etc.as reqd.	10.00	Nos.		
55	S/F, connecting, testing and commissioning 18 watt LED surface mounted luminaires with diffuser etc.as reqd.	5.00	Nos.		
56	S/F, connecting, testing and commissioning 34/35/36 watt LED recess mounted luminaires with diffuser suitable for 600 mm X 600 mm moduler POP/Gypsem ceiling etc.as reqd.	10.00	Nos.		
57	S/F, connecting, testing and commissioning 34/35/36 watt LED surface mounted luminaires (600 mm X 600 mm) with diffuser etc.as reqd.	5.00	Nos.		
58	Supplying and fixing, 24 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories complete	2.00	Nos.		
59	Supplying and fixing, 48 Watt LED street light luminaries with pressure die cast aluminium housing IP66 complete with all accessories.	2.00	Nos.		
60	Supply, fixing, connecting, commissioning & testing of 40 watt LED Post top lantern light complete with all accessories including rag bolts with washer etc as reqd.	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
61	Supply / fixing and connecting & commissioning following lamps in existing fitting as reqd.				
a	PL-s 11 watts	50.00	Nos.		
b	PL-c 18 watts	30.00	Nos.		
c	PL-L 36 watts	30.00	Nos.		
d	FL tube 14 watts TL5	20.00	Nos.		
e	FL tube 28 watts TL5	50.00	Nos.		
62	Supplying, fixing, connecting and commissioning electronic blast (Plastic Body) suitable for following lamps in existing fitting as reqd.				
a	1 x 28/36/40 Watt TLD/CFL	10.00	Nos.		
b	2 x 28/36/40 Watt. TLD /CFL	10.00	Nos.		
c	1 x 9/11/13/18 Watt PL/CFL	10.00	Nos.		
63	Repairing, cleaning and replacement of damaged part i.e holder, Lamp, tubes, chokes starter etc. of any type of fittings(Parts to be supplied by Institute).	200.00	Nos.		
64	Providing and replacement of damaged internal wiring/alteration in wiring of fitting of any type with 1.5 sqmm PVC insulated copper single core wire i/c dismantelling & refixing as reqd.	5.00	Nos.		
65	Alteration of internal wiring in existing fitting of any type for retrofiting of tube LED i/c dismantelling & refixing as reqd.	800.00	Nos.		
66	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existng junction box/ wooden block including connection etc as required.	30.00	Nos.		
67	S & F brass batten/angel holder I/c connection etc as reqd.	5.00	Nos.		
68	Supplying and fixing call bell/ buzzer suitable for A.C. single phase, 230 volts, complete as required.	10.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
69	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper cond	10.00	Nos.		
70	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc as reqd.				
a	5/6 amps switch	50.00	Nos.		
b	15/16 amps switch	50.00	Nos.		
c	5 pin 5/6 amps socket outlet	50.00	Nos.		
d	6 pin 15/16 amps socket outlet	50.00	Nos.		
e	2 way 5/6 amps switch	5.00	Nos.		
f	Telephone socket outlet	5.00	Nos.		
g	Bell Push	5.00	Nos.		
71	Supplying and fixing following modular switch/socket on the existing modular plate & switch box/ DLP plastic trunking including connections but excluding modular plate etc as reqd.				
a	5/6 amps switch	75.00	Nos.		
b	15/16 amps switch	50.00	Nos.		
c	3 pin 5/6 amps socket outlet	75.00	Nos.		
d	6 pin 15/16 amps socket outlet	50.00	Nos.		
e	Blanking Plate	10.00	Nos.		
f	Telephone socket outlet	10.00	Nos.		
g	Bell Push	10.00	Nos.		
72	Supplying and fixing following Modular GI/plastic base & cover plate on existing modular metal boxes/DLP plastic trunking etc. as required.				
a	1 or 2 Module	10.00	Nos.		
b	3 Module	10.00	Nos.		
c	4 Module	10.00	Nos.		
d	6 Module	10.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
e	8 Module	15.00	Nos.		
f	12 Module	2.00	Nos.		
73	Supplying and fixing following Module Plastic box for fixing modular switches/sockets in surface/recess etc as required.				
a	1 or 2 Module	2.00	Nos.		
b	3 Module	2.00	Nos.		
c	4 Module	2.00	Nos.		
d	6 Module	2.00	Nos.		
e	8 Module	2.00	Nos.		
f	12 /16 Module	2.00	Nos.		
74	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.	10.00	Nos.		
75	S & F following rating moduler RJ-11 telephone jack (1M) complete with modular box i/c modular base & cover plate etc as reqd.	5.00	Nos.		
76	S,F,C,&C testing 100 watt step rotary switch/socket type fan regulator on existing board I/c connection etc as reqd.	20.00	Nos.		
77	Supply fixing connecting & commissioning of 5 Amp. 3 pin Plug top as reqd.	25.00	Nos.		
78	Supply fixing connecting & commissioning of 15 Amp. 3 pin Plug top as reqd.	25.00	Nos.		
79	Supply fixing connecting & commissioning 3 pin metal enclosed plug top 20 Amp. as reqd.	25.00	Nos.		
80	Supply fixing connecting & commissioning 3 pin metal clade socket 20 Amp. as reqd.	25.00	Nos.		
81	Fixing, Internet Box of size 75mm x 75mm x 40 mm including brass screw on surface / recessed as reqd.	100.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
82	Drawing of computer network cable/ PVC insulated flexible cooper/ Aluminium single core cable of size 1.5sqmm to 25 sqmm/ telephone cable upto 10 pair in existing pipe / casing and capping as reqd including numbering the wires at both the ends.	400.00	Mtr.		
83	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc as required.	2.00	Nos.		
84	S & F fan hook I/c cutting the slab and fixing with the reinforcement and making damage, painting etc as the same.	5.00	Nos.		
85	Supply, Installation, testing & commissioning of Ceiling fan of following 220 volts 50 Hz without regulator I/c wiring the down rods of standard length up to 30 cm with 1.5 sqmm PVC insulated copper conductor single core cable etc as reqd.				
a	1200 mm sweep	5.00	Nos		
b	1400 mm sweep	5.00	Nos.		
86	Supply,Installation of exhaust fan 220 volt, 50 Hz of following sizes in the existing opening I/c connection, testing, commissioning etc as reqd.				
a	300 mm	2.00	Nos.		
b	375 mm	2.00	Nos.		
c	450 mm	2.00	Nos.		
d	600 mm	1.00	Nos.		
87	S/F, Exhaust fan shutter of following sizes on rag bolts as reqd.				
a	300 mm	2.00	Nos.		
b	375 mm	2.00	Nos.		
c	450 mm	2.00	Nos.		
d	600 mm	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
88	S & F of 400 mm sweep AC 230/250 volts, 50 HZ wall mounting revolving fan with brackets etc. complete	5.00	Nos.		
89	Supplying and fixing connecting and commissioning of AC 230/250 volts, 50 HZ, 250 mm sweep fresh air fan including providing nuts, bolts, mounting frame and other accessories etc. complete	5.00	Nos.		
90	S/F, wall mounting aircirculator fan 450 mm almonard make or equivalent make as reqd	2.00	Nos.		
91	S/F, wall mounting aircirculator fan 600 mm almonard make or equivalent make as reqd	1.00	Nos.		
92	S/F, copper cable lug suitable for following size of conductor.				
a	6 Sqmm	40.00	Nos.		
b	10 Sqmm	45.00	Nos.		
c	16 Sqmm	45.00	Nos.		
d	25 Sqmm	10.00	Nos.		
93	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 2 x 6 sqmm 1.1kV grade as reqd.				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	50.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	10.00	Mtr.		
94	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 4 x 16 sqmm 1.1kV grade as reqd.				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	10.00	Mtr.		

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d	In open duct	10.00	Mtr.		
95	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x25 sqmm 1.1kV grade .				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	10.00	Mtr.		
96	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x35 sqmm 1.1kV grade .				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	10.00	Mtr.		
97	Supplying & Laying of one no. PVC insulated & PVC sheathed aluminium conductor steel armoured cable of size 3-1/2x50 sqmm 1.1kV grade .				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	10.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	5.00	Mtr.		
d	In open duct	5.00	Mtr.		
98	Lifting & removing cable of following sizes from trenches or clamped on surface, making rol depositing the same in the store I/c cartage etc as reqd.				
a	Up to 35 sqmm	50.00	Mtr.		
b	Above 35 sqmm to 95 sqmm	25.00	Mtr.		



S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
99	Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Upto 35 sq. mm				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	5.00	Mtr.		
d	In open duct	5.00	Mtr.		
100	Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Above 35 sq. mm and upto 95 sq. mm.				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	10.00	Mtr.		
101	Laying of one no. PVC insulated, PVC sheathed/XLPE power cable of 1.1kV grade of size Above Above 95 sq. mm and upto 185 sq. mm				
a	direct in ground I/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	20.00	Mtr.		
b	On surface with MS clamp	10.00	Mtr.		
c	In pipe	10.00	Mtr.		
d	In open duct	10.00	Mtr.		
102	Supplying and making end termination with brass compression gland with aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd.				
a	2x6 sqmm	2.00	Nos.		
b	2x10 sqmm	2.00	Nos.		
c	2x16 sqmm	2.00	Nos.		
d	4x16 sqmm	4.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
e	3-1/2x25 sqmm	2.00	Nos.		
f	3-1/2x35 sqmm	2.00	Nos.		
g	3-1/2x 50 sqmm	1.00	Nos.		
103	Supplying and making straight through joint with cast resin compound and aluminium lugs for following size of PVC insulated & PVC sheathed/XLPE aluminium cable of 1.1kV grade as reqd.				
a	2x16 / 2x10 sqmm	1.00	Nos.		
b	4x16 sqmm	1.00	Nos.		
c	3-1/2x25 sqmm	1.00	Nos.		
d	3-1/2x35 sqmm	1.00	Nos.		
e	3-1/2x 50 sqmm	1.00	Nos.		
104	Dismantling & refixing brass compression cable type cable gland up tro size 120 Sqmm cable.	10.00	Nos.		
105	Dismantling the old conduit pipe/ wood batten of all sizes from surface/recessed & making good the damages I/c filling the holes of the surface etc as reqd.	40.00	Mtr.		
106	Dismantling damaged DB/TPN Switches/ loose wire boxes/ M.S. boxes alongwith all accessories and depositing the same in the store as reqd.	20.00	Nos.		
107	Dismantling & refixing DB/TPN Switches upto 100A/ loose wire boxes/ M.S. boxes alongwith all accessories etc as reqd.	5.00	Nos.		
108	Fixing of telephone DP/network rack ( HUB ) on wall floor with suitable brick foundation on bolts and nut etc. as reqd.	10.00	Nos.		
109	Fixing of ceiling fan / rally fan / cabin fan on rag bolts.	20.00	Nos.		
110	Dismantling of ceiling fan / rally fan / all type fitting without regulator I/c depositing in store etc as reqd.	50.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
111	Fixing of 20/25 mm dia steel conduit pipe alongwith the accessories in surface/recessed I/c painting in case of surface conduit or cutting the wall & making good the same in case of recessed conduit as reqd.	50.00	Mtr.		
112	Supplying and fixing following rating MCB type changeover switch suitable for inductive load of following poles in the existing MCB DB/enclosure complete with connections, testing and commissioning etc as reqd.				
a	Double Pole ( 25/32 Amp )	1.00	No.		
b	Double Pole ( 40/63 Amp )	1.00	No.		
c	Four Pole ( 40/63 Amp )	1.00	No.		
113	S & F, connecting and commissioning 4 pole Front handle operated in sheet steel enclosure On Load changeoverswitch of following capacity etc. as reqd.				
a	63 Amp Four Pole	1.00	No.		
b	100 Amp Four Pole	1.00	No.		
c	200 Amp Four Pole	1.00	No.		
d	400 Amp Four Pole	1.00	No.		
114	Providing connection for motor/ panel starter/ transformer upto 1 Kva / steblizer.	10.00	Nos.		
115	Fixing 100 A to 400 A TPN switch / MCCB /Changeover switch on existing frame / board i/c providing nut and bolts with washer etc. as reqd.	2.00	Nos.		
116	S & F bakelite sheet 5 mm thick complete with required nuts & bolts as reqd.	100.00	Sq.in.		
117	S & F 3 mm thick phenolic laminated sheet on existing board with brass screw & cup washer etc as reqd.	500.00	Sq.in.		
118	Locating fault in the cable lines with megger etc. and rectifying moving & restoring supply the same & making good the damages etc as reqd.	2.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
119	Locating fault in wiring rectifying moving & restoring supply the same & making good the damages etc as reqd.	20.00	Nos.		
120	Digging cable trench, lifting bricks & cable for locating fault. Refilling the trench, remaining & making good the same as reqd.	50.00	Mtr.		
121	P&F, connecting and commissioning of surface mounted astronomical timer switch for 24 hrs. setting complete for 365 days 24 Hrs setting (Alpharex3 D22 astro) make Legrand Cat No. 4126 57 or its equivalent approved make etc as reqd.	1.00	Nos.		
122	P&F, connecting and commissioning of surface mounted timer switch for 24 hrs. setting & fixing in the existing enclosure complete with connections, testing and commissioning etc as reqd.	2.00	Nos.		
123	Supplying & fixing Connecting , testing & commisning,direct online ( DOL ) starter suitable upto 7.5 HP 3 phase indution motor 415V, 50Hz make Siemens or approved equivalent makes.	2.00	Nos.		
124	Supplying, Installation, testing & commissioning, 4-zone microprocessor based automatic fire alarm control panel with power supply & battery charger having battery box etc as required.	1.00	Nos.		
125	Supplying, Installation, testing & commissioning, 8-zone microprocessor based automatic fire alarm control panel with power supply & battery charger having battery box etc as required.	1.00	Nos.		
126	Supplying, installation, testing & commissioning, of ionozatinn smoke detectors with standard base including base plate & mounting accessories as reqd.	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
127	Supplying, installation, testing & commissioning, of dust & vermin proof manual call box with push button, breakable glass cover,hammer made out from CRC sheet & steel chain including other accessories as required.	1.00	Nos.		
128	Supplying, installation, testing & commissioning, of hooter 24 V D.C.type high intensity suitable for recessed / surface mounting complete with enclosure as reqd.	1.00	Nos.		
129	Supplying, erection, testing & commissioning, of remote response indicator, complete with lamp test facility etc as required	1.00	Nos.		
130	Supplying and fixing 32 amps, 230 volts, 2P+E industrial type, socket outlet, with 3 pin metal enclosed plug top along with 32 amps ' C ' series double pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socke	1.00	Nos.		
131	Supplying and fixing 32 amps, 415 volts, 3P+N+E industrial type, socket outlet, with 5 pin metal enclosed plug top along with 32 amps ' C ' series four pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc as required.	1.00	Nos.		
132	Supplying and fixing 63 amps, 415 volts, 3P+N+E industrial type, socket outlet, with 5 pin metal enclosed plug top along with 63 amps ' C ' series four pole MCB, in the sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc as required.	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
133	Rewinding of ceiling fans of following sizes i/c dismantling of rotor cutting the damaged winding and providing rewinding along with insulation paper, varnish, connecting copper leads of suitable quality including dismantling and refixing from normal/abnormal height and refixing as required. (Old burnt wire shall be retain by the contractor.)				
a	New model 48"	1.00	Nos.		
b	Old model 48"/new mode 56"	3.00	Nos.		
134	Rewinding of exhaust fans of following sizes i/c dismantling cutting the damaged winding and providing rewinding along with insulation paper, varnish, connecting copper leads of suitable quality including dismantling and refixing from normal/abnormal height and refixing as required.( old burnt wire shall be retain by the contractor.)				
a	exhaust fan12"	2.00	Nos.		
b	exhaust fan15"	2.00	Nos.		
c	exhaust fan18"	2.00	Nos.		
135	Overhauling of ceiling fan / exhaust fan of any size including bearings, checking, cleaning the all parts and supplying & replacement of rubber real, rubber rings, nut bolts, hanger clamps, bearing plates, cotter/ split pin, varnishing if reqd etc, reassembling testing, commissioning, dismantling & disconnecting and refixing as required complete. .				
a)	Ceiling fan	10.00	Nos.		
b)	Exhaust fan	10.00	Nos.		
136	Supplying and fixing 2.5 mfd capacitor suitable for ceiling fan.	5.00	Nos.		
137	Supplying and fixing 4.0 mfd capacitor suitable for ceiling fan.	5.00	Nos.		
138	Supplying and fixing 8.0 mfd capacitor suitable for ceiling fan.	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
139	Repairing of housing of bearing side /bush side /in fan body in ceiling fan /exhaust fan/ rally fan etc.	10.00	Nos.		
140	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc. as required	10.00	Nos.		
141	Cartage of Ceiling fan and regulator / exhaust fan From store to site as reqd.	10.00	Nos.		
142	Cleaning of any type of fittings.	10.00	Nos.		
143	Cleaning of ceiling fan with detergent at site and replacement of damaged items i.e. rubber real, cotter pin, capacitor clamp, nut and bolts of hanger clamps etc as required.	10.00	Nos.		
		<b>Total</b>			