

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR****Tender Notice No. 64/Elect/2018****SCHEDULE OF QUANTITY****Name of Work: Zonal contract for street lights and sports facility lights and other associated works. (Zone-VI).**

Name of the Contractor					
S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	Supplying and drawing following sizes of FR-LSH PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 x 1.5 Sqmm.	30.00	Mtr.		
b	2 x 4 Sqmm.	20.00	Mtr.		
c	2 x 6 Sqmm.	10.00	Mtr.		
2	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	100 mm x 100 mm x 60 mm deep	5.00	Nos.		
b	150 mm x 75 mm x 60 mm deep	5.00	Nos.		
c	200 mm x 250 mm x 100 mm deep	5.00	Nos.		
d	250 mm x 300 mm x 100 mm deep	5.00	Nos.		
3	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load offollowing poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	5.00	Nos.		
b)	Double pole	5.00	Nos.		
c)	Triple Pole	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
4	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	10.00	Mtr		
5	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.	10.00	Mtr.		
6	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	10.00	Mtr.		
7	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	20.00	Mtr.		
8	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10.00	Mtr.		
9	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	10.00	Mtr.		
10	Providing and fixing 6 SWG dia. GI wire on surface or in recess for loop earthing alongwith the existing surface / recessed conduit / submain wiring / cable as required.	50.00	Mtr.		
11	Laying of one no. PVC insulated and PVC sheathed /XLPE power cable of 1.1kV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.				
a	Upto 35 sqmm	50.00	Mtr.		
b	35 sqmm to 95 sqmm	50.00	Mtr.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
c	95 sqmm to 185 sqmm	50.00	Mtr.		
d	185 sqmm to 400 sqmm	50.00	Mtr.		
12	Laying of one no. PVC insulated and PVC sheathed /XLPE power cable of 1.1kV grade in the existing RCC/Hume/Stoneware/Metal pipe as reqd.				
a	Upto 35 sqmm	20.00	Mtr.		
b	35 sqmm to 95 sqmm	20.00	Mtr.		
c	95 sqmm to 185 sqmm	20.00	Mtr.		
d	185 sqmm to 400 sqmm	20.00	Mtr.		
13	Laying of one no. PVC insulated and PVC sheathed /XLPE power cable of 1.1kV grade in the existing masonry open duct as reqd.				
a	Upto 35 sqmm	20.00	Mtr.		
b	35 sqmm to 95 sqmm	20.00	Mtr.		
c	95 sqmm to 185 sqmm	20.00	Mtr.		
d	185 sqmm to 400 sqmm	20.00	Mtr.		
14	Laying and fixing of one no. PVC insulated and PVC sheathed /XLPE power cable of 1.1kV grade on surface as reqd.				
a	Upto 35 sqmm(Clamped with 1 mm thick saddle)	20.00	Mtr.		
b	Above 35 Sq.mm and up to 95 sq.mm(Clamped with 25X3mm MS flat clamp)	20.00	Mtr.		
c	Above 95 Sq.mm and up to 185 sq.mm(Clamped with 25/40X3mm MS flat clamp)	20.00	Mtr.		
d	Above 185 Sq.mm and up to 400 sq.mm(Clamped with 40X3mm MS flat clamp)	20.00	Mtr.		
15	Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade as reqd.				
a	2x6 sqmm(19mm)	10.00	Set		
b	2x10 sqmm(19mm)	10.00	Set		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
c	2x16 sqmm(22mm)	2.00	Set		
d	3-1/2x25 sqmm(28mm)	2.00	Set		
e	3-1/2x35 sqmm(32mm)	2.00	Set		
f	3-1/2x50 sqmm(35mm)	2.00	Set		
g	3-1/2x70 sqmm(38mm)	2.00	Set		
h	3-1/2x95 sqmm(45mm)	2.00	Set		
I	3-1/2x120 sqmm(45mm)	2.00	Set		
j	3-1/2x150 sqmm(50mm)	2.00	Set		
k	3-1/2x185 sqmm(57mm)	2.00	Set		
l	3-1/2x300 sqmm(70mm)	2.00	Set		
m	3-1/2x400 sqmm(82mm)	2.00	Set		
n	4x10 sqmm(25mm)	2.00	Set		
o	4x16 sqmm(28mm)	2.00	Set		
16	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade as reqd.				
a	2x16 sqmm, 2x10 sqmm, 2x6 sqmm	10.00	Set		
b	3-1/2x25 sqmm	2.00	Set		
c	3-1/2x35 sqmm	2.00	Set		
d	4x16 sqmm	2.00	Set		
17	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required				
a	Above 4.5 metre and upto 6.5 metre	5.00	Nos.		
b	Above 6.5 metre and upto 8.0 metre	5.00	Nos.		
c	Above 8.0 metre and upto 10.0 metre	5.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
18	Erection of steel pole tubular in cement concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nuts etc. as reqd	2.00	Nos.		
19	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.		
20	Dismantling of pole,street light standard, strut embeded in cement concrete foundation etc. as required.	10.00	Nos.		
21	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	50mm dia	5.00	Mtr.		
b	80mm dia	5.00	Mtr.		
22	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 2x6sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	200.00	Mtr.		
b	In existing Pipe	50.00	Mtr.		
c	In existing open duct	50.00	Mtr.		
d	Fixing on surface with MS clamp	50.00	Mtr.		
23	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 2x10sqmm, grade 1.1kV in following manners.				

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a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
24	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 2x16sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
25	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 2x25sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
26	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 4 x 10 sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
27	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 4x16sqmm, grade 1.1kV in following manners.				

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a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
28	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 3-1/2 x 25sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
29	Supplying & Laying of one no. XLPE cable aluminium conductor steel armoured cable of size 3-1/2 x 35sqmm, grade 1.1kV in following manners.				
a	In Ground I/c excavation, sand cushioning protective covering, refilling of earth as reqd.	20.00	Mtr.		
b	In existing Pipe	20.00	Mtr.		
c	In existing open duct	20.00	Mtr.		
d	Fixing on surface with MS clamp	20.00	Mtr.		
30	Digging cable trench/lifting brick/s and cable for locating fault and refilling the trench, ramming & making good the same as reqd.	20.00	Mtr.		
31	Lifting removing cable from trench/clamps, making role & depositing the same in store I/c cartage.				
a	upto 35 sqmm	50.00	Mtr.		
b	35 to 95sq.mm	20.00	Mtr.		
c	95 to 185sq.mm	20.00	Mtr.		
d	185 to 400sq.mm	20.00	Mtr.		
32	Dismantling and refixing brass compression type gland up to 400 sq. mm. cable	20.00	Nos.		

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33	Fixing of telephone DP suitable upto 100 pair on wall / floor with suitable brick foundation on bolts and nut etc. as required.	5.00	Nos.		
34	Dismantalling of telephone DP upto 100 pair from wall / floor i/c repairing good the same as required.	5.00	Nos.		
35	Dismantling brass compression type gland up to 400 sq. mm. cable	20.00	Nos.		
36	Supplying and erection of ST pole 8.5 mtr. long (410-SP-20) with base plate 6mm thick and 300 mm x 300mm x6mm size & cap i/c CC foundation complete 1:3:6 (1 cement:3 coarse sand:6 stone aggr. 40mm size). duly painted with 2 coats of good quality aluminium paint as reqd	1.00	Nos.		
37	Supplying and erection of ST pole 9 mtr. long (410-SP-30) with base plate 6mm thick and 300 mm x 300mm x 6mm size & cap i/c CC foundation complete 1:3:6 (1 cement:3 coarse sand:6 stone aggr. 40mm size). duly painted with 2 coats of good quality aluminium paint.	1.00	Nos.		
38	Supply & fixing of 65 mm dia.'B' class GI pole 4.5 mtr. Long for post top lantern i/c base plate 300 x 300 x 3mm GI reducer & nipple for mounting the fitting with painting etc. grouting in cement concrete 1: 3: 6 (1 cement : 3 coarse sand : 6 grade stone aggregate 40mm nominal size 0.4mm dia x 0.5 mm high to accomade the looping) complete as reqd.	5.00	Nos.		
39	Painting of steel tubler / GI street light poles with minimum two coats of good quality (approved make) aluminium paint after cleaning the surface and rubbing the old paint etc. as reqd. complete.				
a)	9.0 mtrs. Long	10.00	Nos.		
b)	8.5 mtrs. Long	10.00	Nos.		
c)	7.5 mtrs. Long	10.00	Nos.		
d)	4.5 mtrs. Long	10.00	Nos.		

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40	Numbering of poles by enamel paint with black letter on yellow base etc. as reqd.	10.00	Nos.		
41	Making masonry Pillar of size 450mmx450mmx600mm height above the ground level with bricks, cement and sand duly plastered on all sides,makingood.etc. as required complete.	10.00	Nos.		
42	S & F MS strip of following size including making hole etc. as reqd.				
a)	30mm x 5mm	20.00	Mtr.		
b)	50mm x 5mm	20.00	Mtr.		
43	S&F M.S. clamps for fixing insulator 'D' clamp street light bracket / cross arm, GI pipe etc. as required.	5.00	Nos.		
44	S&F brass neutral link 5/8" square rod following way as required I/c hole and threading with suitable size.				
a	4 way	5.00	Nos.		
b	6 way	5.00	Nos.		
c	8 way	5.00	Nos.		
45	S/F Bakelite sheet of following thickness complete as reqd.				
a	6mm (1/4")	100.00	Sq.in		
46	Dismantling cross arm / street light brakcet/street light fitting from pole complete as required.	50.00	Nos.		
47	Fixing cross arm / street light brakcet/street light fitting with MS clamps GI bolts with washer as required.	50.00	Nos.		
48	Dismantalling damaged Switch /DB/KWH meter/pole fuse / loose wire box of any size from site and depositing in store I/c cartage etc. as reqd.	20.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
49	Fixing & connecting 1 or 3 phase temporary service connection from supply source to the desired place for lead of 50 mtr and dismantling the same from the source I/c cartage to & fro from store (extension board & cable/wire will be supplied by the dept.)	20.00	Nos.		
50	Fixing of Switch /DB/KWH meter/pole loose wire fuse box of any size on pole/ wall with ragbolts, nuts and washers etc. as reqd.	20.00	Nos.		
51	Locating fault in the cable lines with meggar etc and rectifying removing & restoring the same and making good the damages etc as required.	20.00	Nos.		
52	S&F, connecting and commissioning looping type cable end control box with MS sheet of 16 SWG of size 200 mm x 200 mm x 125 mm having 1 no. 6amp to 32 amp SPMCB 250 volt and 2 nos. brass neutral link square rod 6 way and fixed on 5 mm thick bakelite sheet. Box shall have almirah type hing and panel key type lock front door duly painted with earthing strud etc. complete as required.	20.00	Nos.		
53	Fixing MS Box upto 250 x 300 x100 mm including pole fuse box and painting. with enamel paint as reqd	5.00	Nos.		
54	Supplying and fixing of powder coated KWH meter box of size 300 x 350x 150 mm with hinged locakble front door with 6 mm thick bakelite sheet i/c earthing strud painting etc. complete as required.	5.00	Nos.		

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55	S & F and grouting in recess/surface MS box made of 16 gauge sheet for fixing of 3ph/1 ph energy meter almirah type hinged door cover front openable locking arrangement 5"x5" glass window and MS grill for meter reading purpose, suitable size of bakelite sheet 6mm thick shall also be provided in the MS box for fixing of energy meter i/c earthing stud & painting etc. as reqd.	5.00	Nos.		
56	Supplying and fixing of GI pipe of following mm dia (nominal), 3 mtrs. length along the pole for protection of under ground cable as required.				
a	32mm dia	5.00	Nos.		
b	40mm dia	5.00	Nos.		
57	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	32mm dia	10.00	Mtr.		
b	40mm dia	5.00	Mtr.		
58	Drawing of optical cable enhanced cat 5/cat 6/telephone/ networking /power cable in existing steel conduit pipe/GI /HDPE pipe including numbering of networking wire from room to rack as reqd.	100.00	Mtr		
59	Supply & laying of HDPE pipe ISI mark of size 25mm 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.	50.00	Mtr		
c	In existing pipe	10.00	Mtr.		
b	Fixing on surface with MS clamp	10.00	Mtr.		
d	In existing open duct.	10.00	Mtr.		

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60	Supply & laying of HDPE pipe ISI mark of size 32mm 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.	50.00	Mtr		
c	In existing pipe	10.00	Mtr.		
b	Fixing on surface with MS clamp	10.00	Mtr.		
d	In existing open duct.	10.00	Mtr.		
61	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.	50.00	Mtr		
b	Fixing on surface with MS clamp	10.00	Mtr.		
c	In existing pipe	10.00	Mtr.		
d	In existing open duct.	10.00	Mtr.		
62	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) w.e.f 12.12.12	5.00	Nos.		
63	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) w.e.f 12.12.12	5.00	Nos.		
64	S & F, connecting and commissioning 4 pole side handle operated in sheet steel enclosure changeover switch of following capacity etc. as reqd.				
a	100A	1.00	Nos.		
b	200A	1.00	Nos.		

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65	Supply, installation, testing and commissioning of power contactor three pole 32/40 Amp CAT NO:004069, MAKE:legrand or equivalent with coil voltage 440 volts AC as reqd.	5.00	Nos.		
66	Supply, installation, testing and commissioning of power contactor three pole 110 Amp ML-6, with coil voltage 440 volts AC as reqd.	5.00	Nos.		
67	S&F Connecting and commissioning of single mounted timer switch for 24 Hr. setting complete etc. as required. .For 365 days 24 hrs setting (Astrorex D21) Lerand(.Cat no:0047 64)	5.00	Nos.		
68	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load offollowing poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	Four pole	10.00	Nos.		
69	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.				
a)	Single Pole	5.00	Nos.		
b)	Double pole	5.00	Nos.		
c)	Triple Pole	5.00	Nos.		
d)	Four pole	10.00	Nos.		
70	S&F connecting and commissioning MCCB unit of following ratings 3 pole 415V, 35KA with Spreader link strips I/c providing connecting copper/Al. Strip between bus bar and MCCB tapping etc. as reqd				
a	100A	1.00	Nos.		
b	250A	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
71	S&F connecting and commissioning MCCB unit of following ratings 4 pole 415V, 36KA with Spreader link strips I/c providing connecting copper/Al. Strip between bus bar and MCCB tapping etc. as reqd				
a	100A	1.00	Nos.		
b	250A	1.00	Nos.		
72	S&F connecting and commissioning MCCB unit following accessories etc. as reqd				
a)	Rotary drive	1.00	Nos.		
b)	Pad lock	1.00	Nos.		
c)	Pad lock support	1.00	Nos.		
73	S & F metal enclosure suitable for FP/DP MCB/DP ELCB on surface or recessed etc as reqd.	1.00	Nos.		
74	Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board 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, with provision of 160 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	4 Way TP 8+12	1.00	No's		
75	Supplying, fixing, connecting, testing & commissioning single phase electronic kWh meter LCD type of following ratings i/c. sealing the same (sealing material will be supplied by the dept.) etc as reqd.				
a	10-60 A, 230V, 50 Hz	10.00	Nos.		

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76	Supplying, fixing, connecting, testing & commissioning direct operated or CT operated 100/5A three phase electronic kWh meter LCD type of following ratings i/c. sealing the same (sealing material will be supplied by the dept.) etc. as reqd.				
a	100/5A , 415V, 50 Hz	10.00	Nos.		
77	Repairing, servicing, testing and commissioning 1 or 3 phase kWh meter I/c sealing the same (sealing material will be supplied by the dept.)	50.00	Nos.		
78	Supplying of the 20W LED TUBE LIGHT (DOUBLE SIDE CONNECTION) light fixtures complete with full frame, all accessories with lamp as required complete.	30.00	Nos.		
79	P&F, testing and commissioning following rating lamps in the existing street light fittings / post top lantern fitting i/c dismantling old bulb etc. as required.				
a	150 W, 250 V, MHL	10.00	Nos.		
b	250 W, 250 V, MHL	10.00	Nos.		
c	400 W, 250 V, MHL	10.00	Nos.		
d	2000W, 440 V, MHN-SA	4.00	Nos.		
e	5-W, LED	20.00	Nos.		
f	10-W, LED	20.00	Nos.		
g	15-W, LED	20.00	Nos.		
h	11-W, PL-s	20.00	Nos.		
80	Providing & fixing following electromagnetic ballast in the existing installed fitting etc. as reqd.				
a	150W, MH/ HPSV	10.00	Nos.		
b	250W, MH/ HPSV	5.00	Nos.		
c	400W, MH/ HPSV	5.00	Nos.		
d	2000W, MHN-SA	4.00	Nos.		
81	Supplying, fixing, testing and commissioning igniter suitable for 70 to 400W HPSV/ M-halide fittings	10.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
82	S/F Tube holder rotor type I/c connection etc. as reqd.	80.00	Nos.		
83	Supplying,fixing,connecting&commissionning of holder for 9/11/20/36W PLS lamp.	20.00	Nos.		
84	S/F 40 watt 220V starter for fluourescent tube fitting etc. as reqd.	50.00	Nos.		
85	Dismantling,repairing cleaning and commissioning of all type of street light fitting on pole/ walls etc. as reqd.	60.00	Nos.		
86	Providing & Replacement of damaged internal wiring of fitting of any type with 1.5sqmm PVC insulated copper single core wire.	30.00	Nos.		
87	S/F, angle iron 40mm x 40mm x 6mm i/c cutting, welding, painting etc. as reqd	10.00	Mtrs.		
88	Supplying and drawing following sizes of FR-LSH PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 x 16 Sqmm.	10.00	Mtr.		
89	Fixing of steel conduit pipe of all sizes from surface/recess I/c painting in case of surface conduit or cutting the wall and making good the same in case of recessed conduit.	10.00	Mtr.		
90	Dismantaling of steel conduit pipe of all sizes from surface/recess I/c cutting the wall and making good the same in case of recessed conduit.	20.00	Mtr.		
91	S/F testing commissioning of street light Luminures. ENDURA PEARL type 25W LED ENDURAPEARLSL 25WLED757SASYTOPC , die-cast aluminium IP65 electronic Driver,make:havells or its equivalent, on the existing street light pole complete as required.	25.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
92	S/F testing commissioning of street light Luminures. Endura cityliner neo type 48WLED757SASYBOPC , die-cast aluminium IP66 type make: Havells or its equivalent, on the existing street light pole complete as required.	25.00	Nos.		
93	Supplying,fixing,testing commissioning of garden light 25W LED postop lantern Luminures. Cat no.RUBYPT25WLED757PSYMTOPC, make:havells or its equivalent, on the existing pole complete as required.	10.00	Nos.		
94	Supplying,fixing,testing commissioning of garden light 35W LED postop lantern Luminures. Cat no.CORALPT35WLED757PSYMTOPC, make:havells or its equivalent, on the existing pole complete as required.	10.00	Nos.		
95	Supplying,fixing,testing commissioning of Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP65 flood light with high power LEDs as light source, suitable for highlighting architectural facade highmast and general purpose lighting. model no.JETAPROPLUSFL150WLED757LTG make Havells, on the existing pole complete as required.	1.00	Nos.		
96	Supplying,fixing,testing commissioning of Energy saving, environmental friendly, long life, exclusive innovative die-cast aluminium IP65 flood light with high power LEDs as light source, suitable for highlighting architectural facade highmast and general purpose lighting. 200LED model no. JETA PROPLUSFL200WLED757LTG make Havells, on the existing pole complete as required.	1.00	Nos.		

S. No	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
97	Supplying, fixing, connecting & commissioning of LED JET proof of sturdy vandal resistant polycarbonate housing and diffuser. LED INDUSTRIAL BATTEN : DORADO SERIES cat no. DORADO/40W LED tube fitting as requierd.	10.00	Nos.		
98	S/F of metal encloser of MCCB 3 pole/ 4 pole i/c rag bolts complete as required.				
a	100 amp	1.00	Nos.		
99	Supplying and drawing of following sizes of FR PVC insulated copper conductor, 3 core round cable of following size in the existing surface/ recessed steel/ PVC conduit as required.				
a	1.5 Sq.mm	100.00	Mtrs.		
	Total				