

<b>CORRIGENDUM-I</b>				
<b><u>PART-II (PRICE BID)</u></b>				
<b>BILL OF QUANTITY</b>				
SL. NO	DESCRIPTION	UNIT	QTY (a)	% Weightage on the total amount (excluding Service tax)
1	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. (cable will be supplied by BHEL free of cost at stores)			
	1.1 <b>Up to 35 sq.mm</b>	Metre	1100	3.024588%
	1.2 <b>Above 35 sq.mm and Upto 95 sq.mm</b>	Metre	825	2.349872%
	1.3 <b>Above 95 sq.mm and Upto 185 sq.mm</b>	Metre	825	2.442936%
	1.4 <b>Above 185 sq.mm and Upto 400 sq.mm</b>	Metre	550	1.806997%
<b>LAYING OF ADDITIONAL CABLE IN SL.NO:1</b>				
2	Laying of one number additional PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes direct in ground in the same trench in one tier horizontal formation including excavation ,sand cushioning ,protective covering and refilling the trench etc as required. (cable will be supplied by BHEL free of cost at stores)			
	2.1 <b>Up to 35 sq.mm</b>	Metre	110	0.206292%
	2.2 <b>Above 35 sq.mm and Upto 95 sq.mm</b>	Metre	220	0.437402%
	2.3 <b>Above 95 sq.mm and Upto 185 sq.mm</b>	Metre	550	1.155548%
	2.4 <b>Above 185 sq.mm and Upto 400 sq.mm</b>	Metre	220	0.530466%
<b>LAYING OF CABLE ON WALL SURFACE</b>				
3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes on surface as required. (cable will be supplied by BHEL free of cost at stores).			
	3.1 <b>Up to 35 sq.mm (Clamped with 1mm thick saddle)</b>	Metre	825	0.279193%
	3.2 <b>Above 35sq.mm and Up to 95 sq.mm (Clamped with 25x3mm MS flat Clamp)</b>	Metre	550	0.542875%
	3.3 <b>Above 95sq.mm and Up to 185 sq.mm (Clamped with 25/40x3mm MS flat Clamp)</b>	Metre	220	0.251273%
	3.4 <b>Above 185sq.mm and Up to 400 sq.mm (Clamped with 40x3mm MS flat Clamp)</b>	Metre	110	0.178373%
<b>LAYING OF CABLE ON CABLE TRAY</b>				
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes on Cable Tray as required. (cable will be supplied by BHEL free of cost at stores).			
	4.1 <b>Up to 35 sq.mm (Clamped with 1mm thick saddle)</b>	Metre	550	0.155107%
	4.2 <b>Above 35sq.mm and Up to 95 sq.mm (Clamped with 25x3mm MS flat Clamp)</b>	Metre	275	0.186128%

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4.3	Above 95sq.mm and Up to 185 sq.mm (Clamped with 25/40x3mm MS flat Clamp)	Metre	220	0.183026%
4.4	Above 185sq.mm and Up to 400 sq.mm (Clamped with 40x3mm MS flat Clamp)	Metre	110	0.141147%
<b>LAYING OF CABLE IN GROUND WITHOUT SAND AND PROTECTIVE COVERING</b>				
5	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following size direct in ground including excavation and refilling the trench, but excluding sand cushioning and protective covering. (cable will be supplied by BHEL free of cost at stores)			
	5.1 Upto 35 sq.mm	Metre	330	0.404829%
	5.2 Above 35 sq.mm and Upto 95 sq.mm	Metre	550	0.736759%
	5.3 Above 95 sq.mm and Upto 185 sq.mm	Metre	550	0.791046%
	5.4 Above 185 sq.mm and Upto 400 sq.mm	Metre	110	0.193884%
<b>LAYING OF CABLE IN RCC/HUME/METAL PIPE</b>				
6	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes in the existing RCC/HUME/METAL PIPE (cable will be supplied by BHEL free of cost from stores).			
	6.1 Up to 35 sq.mm	Metre	825	0.186128%
	6.2 Above 35sq.mm and Up to 95 sq.mm	Metre	550	0.193884%
	6.3 Above 95sq.mm and Up to 185 sq.mm	Metre	220	0.102371%
	6.4 Above 185sq.mm and Up to 400 sq.mm	Metre	110	0.089962%
<b>LAYING OF CABLE ON OPEN DUCT</b>				
7	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes in the existing masonry open dut as required. (cable will be supplied by BHEL free of cost from stores).			
	7.1 Up to 35 sq.mm	Metre	550	0.093064%
	7.2 Above 35sq.mm and Up to 95 sq.mm	Metre	550	0.155107%
	7.3 Above 95sq.mm and Up to 185 sq.mm	Metre	220	0.083758%
	7.4 Above 185sq.mm and Up to 400 sq.mm	Metre	110	0.077554%
<b>INSTALLATION &amp; TESTING</b>				
8	Installation, testing and commissioning of pre-wired Flourescent fitting / CFL fitting of all types, complete with all accessories and tube etc. directly on ceiling / wall, including connection with 1.5sq.mm FR PVC insulation, copper conductor, single core cable and earthing etc, as required. (fitting and lamp will be supplied by BHEL free of cost).	Each	22	0.028229%
9	Installation,testing and commissioning of resistance type ceiling fan regulator, in existing switch box including connection with 1.5 sq.mm FRLS PVC insulation, copper conductor, single core cable and earthing the regulator etc, as required. (Regulator will be supplied by BHEL free of cost).	Each	11	0.008066%

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<b>SUPPLY AND FIXING</b>				
10	Supply and fixing danger notice plate of following sizes, made of mild steel, at least 2 mm thick, and enamelled white on both sides, and with description in single red colour on front side as required.			
10.1	For Medium Voltage 200 mm x 150 mm	Each	11	0.021870%
10.2	For High Voltage 250 mm x 200 mm	Each	11	0.024042%
11	Supply and fixing cable route marker with 10cm x 10cm x 5cm thick G.I plate with inscription there on, bolted / welded to 35mm x 35mm x 6mm angle iron, 60 CM long and fixing the same in ground as required.	Each	55	0.223354%
12	Supply 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.			
12.1	20 mm	Metre	165	0.123310%
12.2	32 mm	Metre	55	0.065921%
12.3	50 mm	Metre	55	0.111677%
13	Supply and replacing the defective switch/socket and fixing a new switch / socket on the existing switch box and having equivalent quality of Make : Anchor , GM , Havells.			
13.1	5/6 amps switch.	Each	550	0.255927%
13.2	15/16 amps switch.	Each	55	0.055839%
13.3	5/6 amps socket outlet.	Each	550	0.317970%
13.4	6 pin 15/16 amps socket outlet.	Each	33	0.038622%
14	Supply and Wiring for circuit / submain wiring along earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in surface / wall with recessed <b>steel conduit</b> , as required.			
14.1	(2 x 1.5 sq.mm ) + (1 x 1.5 sq.mm Earth wire)	Metre	440	1.085750%
14.2	(2 x 2.5 sq.mm ) + (1 x 2.5 sq.mm Earth wire)	Metre	825	2.326606%
15	Supply and Wiring for circuit / submain wiring along earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in surface / wall with recessed 2mm thick <b>PVC conduit</b> , as required.			
15.1	(2 x 1.5 sq.mm ) + (1 x 1.5 sq.mm Earth wire)	Metre	2750	4.110338%
15.2	(2 x 2.5 sq.mm ) + (1 x 2.5 sq.mm Earth wire)	Metre	3300	6.095708%
<b>SUPPLY AND MAKING JOINTS</b>				
16	Supply and making straight through joints with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE <b>aluminium</b> armored/unarmored conductor cable of 1.1KV grade as required.			
16.1	<b>3 x 50 sq.mm</b>	Each	6	0.172507%
16.2	<b>3.5 x 50 sq.mm</b>	Each	6	0.186128%
16.3	<b>3.5 x 70 sq.mm</b>	Each	6	0.200088%
16.4	<b>3.5 x 95 sq.mm</b>	Each	6	0.237314%
16.5	<b>3.5 x 185 sq.mm</b>	Each	11	0.711631%

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16.6	3.5 x 300 sq.mm	Each	3	0.258761%
<b>INSTALLATION &amp; TESTING</b>				
17	Installation and Testing of 1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting with lamp,of all type on the column / wall / post / tower / roof with down rod, supporting angle, necessary fixtures etc. (Supply of downrod and supporting angle will be contractor scope). (fitting and lamp will be supplied by BHEL free of cost) at stores.	Each	165	2.254481%
18	Installation, Testing and Commissioning of ceiling fan and regulator including supply and wiring the down rods of standard length (up to 30 cm) with 1.5 Sq.mm FRLS PVC insulation, copper conductor, single core cable and earthing etc, as required. (Supply of downrod will be contractor scope) (fan will be supplied by BHEL free of cost) at stores.	Each	66	0.270817%
19	Erection of 400/800Amps MAIN PANEL of following sizes a) Necessary MS channel of size 100mmx50mm shall be supplied and provided for the erection of MP atleast 1support for a length of 1 metre. b) The support channels shall be neatly fixed across the cable trench, by welding or grouting. c) The MS channels shall be thoroughly cleaned and painted with one coat of red-oxide and two coat of enamelled paint as required. (The main panel alone will be supplied by BHEL free of cost) at stores.			
	19.1 2Metre length	Each	1	0.086254%
	19.2 3Metre length	Each	1	0.115005%
	19.3 4Metre length	Each	1	0.143756%
	19.4 5Metre length	Each	1	0.186890%
20	Fixing of following ways 63A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adopter box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection,masonry work and etc as required. (Iron frame and adopter will be contractor scope). (The DB and ICTPN will be supplied by BHEL free of cost) at stores.			
	20.1 4 way DB,100A ICTPN as incomer	Each	3	0.159563%
	20.2 8 way DB,200A ICTPN as incomer	Each	3	0.181137%
21	Fixing of following ways 32A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adopter box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection, masonry work and etc as required. (Iron frame and adopter will be contractor scope), (The DB and ICTPN will be supplied by BHEL free of cost) at stores.			
	21.1 4 way DB, 63A ICTPN as incomer	Each	6	0.284607%
	21.2 8 way DB, 100A ICTPN as incomer	Each	6	0.301867%
	21.3 12 way DB, 200 ICTPN as incomer	Each	3	0.159563%

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22	Fixing of following ways 16A/20A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adoptor box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection, masonry work and etc as required. (Iron frame and adoptor will be contractor scope), (The DB and ICTPN will be supplied by BHEL free of cost) at stores.			
22.1	8 way DB, 63A ICTPN as incomer	Each	3	0.138031%
22.2	12 way DB, 100A ICTPN as incomer	Each	3	0.150933%
23	Fixing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler along with suitable DOL starter on iron frame work, with 3 pole 6 amps MCB, in 2mm thick MS box, the iron frame and MS box to be fixed on column / wall with necessary fixtures etc. (Man cooler and starter will be supplied by BHEL) at stores, (MS box and MCB will be contractor scope) .	Each	17	0.403194%
24	Installation, Testing and Commisioning of Exhaust fans up to 510mm sweep single phase by making holes to suit on the wall, required masonry work to making good the damage, including connection as required. (Exhaust fan will be supplied by BHEL) at stores.	Each	11	0.082982%
25	Fixing of following capacity ICTPN/LTPN type disconnecter fuse switch unit on the existing cubicle panel board with MS cable entry adoptor box (top/bottom) with necessary fixtures etc, including drilling holes in cubicle panel, making connections, etc as required. (supply of Adaptor box in a contractor scope). (ICTPN/LTPN will be supplied by BHEL) at stores.			
25.1	32 Amp TPN / FP	Each	6	0.060407%
25.2	63 Amp TPN / FP	Each	6	0.069037%
25.3	100 Amp TPN	Each	6	0.074451%
25.4	200 Amp TPN	Each	6	0.112100%
25.5	315/400 Amp TPN	Each	6	0.137989%
26	Fixing following capacity ICTPN / LTPN type disconnecter fuse switch unit on suitable iron frame work on floor/wall/column with (2 mm thick) MS cable entry adoptor box on (top and bottom) with necessary inter-connection, masonry work and etc as required. (supply of Adaptor box and iron frame will be contractor scope). (ICTPN/LTPN will be supplied by BHEL) at stores.			
26.1	32 Amp TP&N	Each	6	0.099156%
26.2	63 Amp TP&N	Each	11	0.237159%
26.3	100 Amp TP&N	Each	6	0.181137%
26.4	200 Amp TP&N	Each	6	0.194081%
26.5	315/400 Amp TPN	Each	2	0.071885%
27	Numbering of ceiling fan / exhaust fan / flourescent fittings as required. Make: nerolac, asian, tractor. (paint, brush will be contractor scope).	Each	55	0.017062%

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28	Supply and painting with one coat of red oxide as primer and two coats of synthetic enamel of selected colour on metal surfaces of Transformers/ DB / MP / Isolators / Street Light Pole / Fencing / Steel structures/ Angles / Bracing / Column etc. with Paint having equivalent quality of make:nerolac, asian, tractor.	sq ft	5500	2.404160%
<b>SUPPLY AND FIXING</b>				
29	Supply and fixing of galvanized MS (2mm thick plate) cable tray of size 200mm width and 150mm height with cover on ground using jumber bolt.	Mtr	22	0.221493%
30	Supply and fixing suitable clamps and necessary fixtures for existing PVC / STEEL (19mm/24mm/36mm) conduits on wall / surface / column.	Mtr	55	0.015511%
31	Supplying and fixing of metal box (2mm thick) with cover of following sizes (Nominal size) on surface / wall / recess with Phosphatized and powder painted, locking facility as required.			
	31.1 100 mm x 100 mm x 60 mm deep	Each	33	0.047463%
	31.2 200 mm x 250 mm x 60 mm deep	Each	83	0.262159%
	31.3 200 mm x 150 mm x 100 mm deep	Each	22	0.063284%
31.4 250 mm x 300 mm x 60 mm deep	Each	28	0.140950%	
32	Supply and replacing / fixing of following rating of socket and switch on following size of metal box (nominal size) on surface / wall / column / recess with suitable size of phenolic laminated sheet cover in front including providing and fixing ,interconnections,painting etc as required.			
	32.1 MS box of 150 mm x 75 mm x 60 mm deep, 5 / 6 Amps socket outlet and flushtype switch	No	22	0.158209%
	32.2 MS box of 180 mm x 100 mm x 60 mm deep, 15 / 16 Amps socket outlet and flushtype switch	No	83	0.745515%
33	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface / wall / column /recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing, as required. (with out MCB) and having equivalent quality of make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			
	33.1 4 way ,single door	Each	6	0.099156%
	33.2 8 way ,single door	Each	6	0.137989%
	33.3 12 way ,single door	Each	6	0.172507%
34	Supplying and fixing 4way, single door, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface / wall /recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing, as required. (with out MCB) and having equivalent quality of MCB make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.	Each	6	0.237229%
	Supplying and fixing 5 Amps to 32 Amps rating, 240 / 415 volts, 'C' Curve, MCB suitable for inductive load of following poles in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			

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35	35.1	Single pole	Each	55	0.237314%
	35.2	Double pole	Each	28	0.302036%
	35.3	Triple pole	Each	11	0.166120%
	35.4	Triple pole & neutral	Each	11	0.260890%
36		Supplying and fixing following rating double pole MCB, 240 volts, in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			
	36.1	40 amps	Each	6	0.112100%
	36.2	63 amps	Each	6	0.129359%
37		Supplying and fixing following rating four pole MCB, 415 volts, in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			
	37.1	40 amps	Each	6	0.189766%
	37.2	63 amps	Each	6	0.228600%
38		Supply and fixing of following rating of MCB with connection and earthing and necessary fixtures as required and having equivalent quality of MCB. MAKE: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			
	38.1	63Amps TPN MCB On the existing distribution board/MS box	Each	6	0.163878%
	38.2	32Amps TPN MCB On the existing distribution board/MS box	Each	6	0.150933%
	38.3	32Amps DP MCB On the existing distribution board/MS box	Each	6	0.129359%
	38.4	25Amps TPN MCB On the existing distribution board/MS box	Each	6	0.112100%
	38.5	25Amps DP MCB On the existing distribution board/MS box	Each	6	0.069037%
39		Supplying and fixing of metal clad socket of Best & Crompton / Sakthi Crown make with plug top along with suitable rating MCB as given, in 2mm thick MS box, on surface / wall / recess / Column / ground, with cover for the socket outlet and complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB. Make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			
	39.1	1phase, 3 pin, 10 Amps socket & plug top and 10 Amps DP MCB.	Each	22	0.553422%
	39.2	1phase, 3 pin, 20 Amps socket & plug top and 20 Amps DP MCB.	Each	28	0.777002%
	39.3	3phase, 4 pin, 20 Amps socket & plug top and 20 Amps TP MCB.	Each	28	1.127205%
	39.4	3phase, 4 pin, 30 Amps socket & plug top and 30 Amps TP MCB.	Each	22	1.138486%
40	Supplying and fixing three phase 30 Amps ,415 volt, 5-pin TPN industrial type socket outlet with 4pole and earth metal enclosed plug top along with 30Amps MCB, c curve TPMCB in sheet steel enclosure or in recess, with chinel metal cover, for the socket outlet and complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB Make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.	Each	28	1.690611%	
41	Supply & fixing steel wire mesh for three phase column mounted / tabular / pedestal mancoolers with necessary binding wires etc.,	Each	22	0.142388%	

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	Supply and laying of following earth strip / wire / bus on surface / wall / recess connections as required.			
42.1	50x6mm GI flat for earthing.	Metre	220	1.423883%
42.2	25x6mm GI flat for earthing.	Metre	550	1.977615%
42.3	25mm x 5mm G.I earth strip	Metre	55	0.118657%
42.4	25x3mm GI flat for earthing.	Metre	550	0.791046%
42.5	8 SWG GI wire	Metre	660	0.474628%
42.6	14 SWG G.I wire	Metre	55	0.027919%
42.7	8 SWG copper wire	Metre	55	0.047308%
42.8	14 SWG Bare Copper wire	Metre	330	0.214048%
42.9	25mm x 6 mm copper flat	Metre	22	0.126567%
42.10	50mm x 6 mm copper flat	Metre	22	0.268956%
43	Supply and fixing of weather proof (2mm thick) MS box of size 200mm height x 240mm length x 150mm depth with one coat of red oxide and 2 coat of alu. paint for street light with 1 No of 15A fuse carrier and 6 way 15A connector.	Each	83	0.477504%
44	Supply and fixing calling bell / buzzer suitable for single phase, 230V, complete as required.	Each	6	0.024620%
45	Supply, Installation, testing and commisioning of following sweep size Exhaust fan, single phase,1420 rpm fan with suitable mounting rings, brackets and resilient rubber cushions and with necessary fixtures and with self closing louvers, by making holes to suit on the wall, making good the damage, including connection as required and having equivalent quality. Make: Almonard, Havells, Crompton, Orient, Khaithan.			
45.1	450mm sweep	Each	22	1.359979%
45.2	300mm sweep	Each	11	0.474473%
45.3	150mm sweep	Each	6	0.129359%
46	Removing the existing old exhaust fan and Supply, Installation, testing and commisioning of following sweep size Exhaust fan, single phase,1420 rpm fan with suitable mounting rings, brackets and resilient rubber cushions and with necessary fixtures and with self closing louvers, on the existing wall, including connection as required and having equivalent quality. Make:Almonard, Havells, Crompton, Orient, Khaithan.			
46.1	450mm sweep	Each	22	1.265053%
46.2	300mm sweep	Each	11	0.395368%
46.3	150mm sweep	Each	6	0.107785%
47	Supply and fixing of Electronic type 5 step speed regulator for AC, single phase, ceiling fan having equivalent quality of make: ANCHOR, USHA, Orient, POLAR, Kundan, FYBROS.	Each	132	0.949255%

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48	Supply and Installation of 230V AC, single phase, double ball bearing, white/ivory colour ceiling fan of following size sweep with mounting ring, brackets and resilient rubber cushions and downrod of standard length (up to 30 cm) and wiring the down rods with 1.5sq.mm FR PVC, connection as required and having equivalent quality of fan. make: Almonard, Usha, Crompton, Orient, Khaithan. (Fan should not be thread type head).			
48.1	600mm sweep	Each	6	0.151695%
48.2	1200 mm sweep	Each	6	0.224285%
49	Supply and Installation of FL / CFL of following rating of lamp fitting with lamp having equivalent quality of make: Havells, Philips, Wipro with fitting and necessary fixtures etc on wall/ceiling.			
49.1	20W flourescent tube	Each	11	0.031642%
49.2	23W CFL	Each	11	0.081897%
49.3	18W CFL	Each	11	0.063284%
49.4	1x(36/40)W FL patti type fitting with lamp	Each	11	0.079105%
49.5	1x(36/40)W FL box type fitting with lamp	Each	11	0.094926%
49.6	2x(36/40)W FL box type fitting with lamp	Each	6	0.064722%
50	Supply, installation, testing and commisioning of wall / column mounting, vertical type, 415V, TPN, MCB distribution board of sheet steel , dust protected duly phosphatized and powder painted, inclusive of 200Amps tinned copper Busbar, comman neutral link, earth bar, din bar for mounting MCB's, gland / knock out plate and with 100Amps, 10KA MCCB as incomer interconnection between incomer MCCB and busbar of following ways as required,without MCB. (where three phase outlets are required) and having equivalent quality of Make:GE, Siemens, MDS, legarnd, Havells .			
50.1	4 way DB,100amps MCCB as incomer	Each	6	0.431310%
50.2	8 way DB,100amps MCCB as incomer	Each	2	0.230010%
50.3	12 way DB, 100amps MCCB as incomer	Each	2	0.345015%
51	Supply and Erection of mettalic street light standard pole of length as follows in cement concrete 1:3:6 fountation with cement concrete collar of size 0.4m dia x 0.5m height to accomodate, pole with pipe bracket, coil earthing, 2 Nos of each 1.5 mtrs long GI pipe embedded on concrete suitable for taking out 2 core 16 / 10 sq.mm. PVCA Al. cable with necessary, looping cable end box, excavation and refilling etc, as required. (The Pole and MS Pipe bracket shall be Fabricated as per BHEL drawing nos:ES:M&S:1,2A and as per IS 2713(Part-I to Part-III)-1980).			
51.1	Above 4.5 metre and upto 6.5 metre	Each	6	0.560670%
51.2	Above 8.0 metre and upto 10.0 metre	Each	6	0.776325%
51.3	Above 10.0 metre and upto 12.0 metre	Each	3	0.517522%
<b>END TERMINATION</b>				
	Supply and making of end termination with brass single compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium armoured/unarmored conductor cable of 1.1KV grade as required			

SL. NO	DESCRIPTION	UNIT	QTY (a)	% Weightage on the total amount (excluding Service tax)	
52	52.1	3 x 50 sq.mm	Each	22	0.110746%
	52.2	3 x 300 sq.mm	Each	11	0.094926%
	52.3	3.5 x 50 sq.mm	Each	22	0.110746%
	52.4	3.5 x 70 sq.mm	Each	11	0.063284%
	52.5	3.5 x 95 sq.mm	Each	44	0.259339%
	52.6	3.5 x 185 sq.mm	Each	33	0.261045%
	52.7	3.5 x 300 sq.mm	Each	39	0.504831%
	52.8	4 x 16 sq.mm	Each	59	0.169715%
53		Supply and making of end termination with brass single compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper armoured/unarmored conductor cable of 1.1KV grade as required.			
	53.1	3 x 50 sq.mm	Each	6	0.047463%
	53.2	3.5 x 25 sq.mm	Each	88	0.442986%
	53.3	3.5 x 35 sq.mm	Each	77	0.464701%
	53.4	3.5 x 50 sq.mm	Each	11	0.094926%
	53.5	3.5 x 70 sq.mm	Each	6	0.060407%
	53.6	3.5 x 95 sq.mm	Each	11	0.126567%
	53.7	3.5 x 120 sq.mm	Each	6	0.081981%
53.8	3.5 x 185 sq.mm	Each	11	0.158209%	
<b>SUPPLY AND WIRING</b>					
54		Supply and Wiring for light point / fan point / calling bell point with 1.5sq.mm FR PVC insulated copper conductor in surface / wall, with flush type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5sq.mm FR PVC insulated copper cable etc as required. (1 point shall be consider as 7metre distance more than 7metre shall be calculated in running metres as per SL.NO:55 & 56).			
	54.1	PVC conduit (open wiring)	Point	440	6.011950%
	54.2	recessed PVC conduit (conceaed wiring)	Point	11	0.158209%
	54.3	PVC flat conduit	Point	11	0.158209%
	54.4	using steel conduit	Point	11	0.205517%
55		Supply and Wiring for twin control light point with 1.5sq.mm FR PVC insulated copper conductor in surface / wall,with 2 way flush type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5sq.mm FR PVC insulated copper cable etc as required.			
	55.1	using steel conduit	Point	6	0.120730%
	55.2	PVC conduit	Point	6	0.103471%
56		Rewiring for light point (1 way/2 way) / fan point / exhaust fan / calling bell / socket point with following size FR PVC insulated copper conductor and same size as earth wire in existing surface / wall / recess including dismantling as required.			
	56.1	1.5 sq.mm	Point	11	0.079105%
	56.2	2.5 sqmm	Point	22	0.237314%

SL. NO	DESCRIPTION	UNIT	QTY (a)	% Weightage on the total amount (excluding Service tax)
<b>MAINTENANCE OF EARTH PIT AND ERECTION OF EARTH PIT</b>				
57	Corroded worn out damaged fasteners should be replaced with GI fasteners of not less than 8 mm by the contractor . If drilling is needed, the contractor shall bring their own drilling machine.	Pit	55	0.019388%
58	Corroded / worn out funnels shall be replaced by the contractor wherever necessary.	Each	33	0.071194%
59	Earthing with G.I pipe of 40mm dia 4500mm long, including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc, with charcoal and salt as required.(the size of pit,clamping and connections are as per drawing of BHEL:M&S:EL:PLNG:001-08.)			
59.1	The Earth pit excavation may have to be done in <b>ordinary soil</b>	Each	6	0.603818%
59.2	The Earth pit excavation may have to be done in <b>soft rock</b>	Each	6	0.733177%
59.3	The Earth pit excavation may have to be done in <b>hard rock</b>	Each	28	4.226527%
60	Replacing and fixing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler on existing iron frame, on column / wall with necessary fixtures etc. (Man cooler will be supplied by BHEL)	Each	11	0.047463%
<b>REMOVING</b>				
61	Removing of one number PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes from underground including excavation, refilling the same trench etc as required.			
61.1	<b>not exceeding 25sq.mm</b>	Metre	55	0.071349%
61.2	<b>exceeding 25 sq.mm but not exceeding 120 sq.mm</b>	Metre	55	0.079105%
61.3	<b>exceeding 120 sq.mm but not exceeding 400 sq.mm</b>	Metre	110	0.196986%
62	Removing of one number PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes from wall / trench / rack / floor.			
62.1	<b>not exceeding 25sq.mm</b>	Metre	1100	1.178814%
62.2	<b>exceeding 25 sq.mm but not exceeding 120 sq.mm</b>	Metre	1100	1.349432%
62.3	<b>exceeding 120 sq.mm but not exceeding 400 sq.mm</b>	Metre	825	1.128404%
63	Removing end termination of PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade.			
63.1	<b>not exceeding 25sq.mm</b>	Each	110	0.189231%
63.2	<b>exceeding 25 sq.mm but not exceeding 120 sq.mm</b>	Each	44	0.123465%
63.3	<b>exceeding 120 sq.mm but not exceeding 400 sq.mm</b>	Each	44	0.145180%
64	Removing of 1 x 40W, 2 x 40W box / patti type fitting from wall / ceiling and handing over the same to the department.	Each	110	0.316418%
65	Removing of street light 250W HPSV/ HPMV MH / lamp fitting and lamp.	Each	55	0.316418%
66	Removing of ceiling fans with regulator and handing over the same to the department.	Each	55	0.158209%
67	Removing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler along with DOL starter and handing over the same to the department..	Each	11	0.094926%
68	Removing of MCB DB/FDBs of 4/8/12ways 16A/32A/63A, from wall/steel structure etc.,	Each	11	0.034744%

SL. NO	DESCRIPTION	UNIT	QTY (a)	% Weightage on the total amount (excluding Service tax)	
69	Removing of Isolators / Fuse Switch Units of 32/63/100/200/315 and 400A from wall/steel structure etc..,	Each	33	0.142388%	
70	Removing of old PVC conduit / steel conduit wirings and wires from surface / wall / recess and handing over to the section.	Metre	1320	0.763127%	
71	Removing of wornout / damaged DSL insulator and replacing new DSL insulator with necessary fixtures. (Insulator will be supplied by BHEL free of cost).	Each	28	0.080543%	
<b>REPAIRING</b>					
	Removing the light fittings from the location, replacing of bulb / ignitor /choke / starter and refixing the same after proving their performance. (All the spares components will be supplied by BHEL free of cost).				
72	72.1	1x40W FL. Fitting	Each	330	1.186569%
	72.2	2x40W(or)2x65W FL. Fitting	Each	55	0.217150%
	72.3	2x20 / 3x20 / 4x20 / 2x14 / 2x36 / 3x36W FL / CFL.	Each	55	0.237314%
	72.4	1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting	Each	440	3.480603%
	72.5	Hi mast light	Each	33	0.284777%
	72.6	Flame proof FL. Fitting	Each	6	0.025889%
73	Without removing light fittings from the location, replacing bulb / ignitor /choke and proving their performance.(All the spare components will be supplied by BHEL free of cost) . 1x400W / 2x400W / 250W /125W / 2x14W / 2x36W / 3x36W / 40W FL / CFL / HPMV / HPSV / MH roof / column / wall / pole light fitting.	Each	440	0.694880%	
74		Removal, replacing the defective components in the following size fan and refixing the same at the original location after proving their performance. (All the spares components will be supplied by BHEL free of cost)			
	74.1	up to 510mm Exhaust fan	Each	22	0.085309%
	74.2	up to1200mm ceiling fan	Each	165	0.711941%
<b>CLEANING</b>					
75	General cleaning of THREE PHASE column mounted /tubular man cooler in production shop floors.	Each	11	0.043430%	
76	General cleaning of SINGLE PHASE ceiling / pedestal fan.	Each	550	0.240416%	
77	General cleaning of cubicle cable trench (open the trench cover and cleaning and removing the unwanted items and covering the trench).	cu. metre	1320	0.465321%	
<b>MAINTENANCE OF EARTH PIT AND ERECTION OF EARTH PIT</b>					
78	Pouring 60 litres of water (approximately) in the funnel of every earth pit. (The required hose pipe and bucket shall be arranged by the contractor).	Pit	110	0.031021%	
79	Measurement of earth electrode resistance, Grid earth resistance values. The contractor shall bring the required periodically calibrated Earth Tester with leads, spikes, tools etc as per relevant IS.	Pit	220	0.142699%	
80	Writing legibly the details of the reading on the earth pit cover. The details will be given by the concerned supervisor. The details shall be written .Good quality paint shall be used for background and white colour paint for lettering. (Paint and brush will be supplied by BHEL free of cost).	Pit	220	0.632837%	

SL. NO	DESCRIPTION	UNIT	QTY (a)	% Weightage on the total amount (excluding Service tax)
81	Earth pits and its surrounding shall be cleaned by the contractor using their own tools.	Pit	220	0.058941%
82	Removing the existing damaged masonry work & providing new masonry work enclosure with slab and watering pipe along earthing with GI plate of 600mm x 600mm x 6mm.	Set	50	2.758791%
	<b>Total weightage in %</b>			100.000000%
83	<b>LUMPSUM AMOUNT (Excluding Service tax) "ONLY" TO BE QUOTED BY THE BIDDER</b>		Rs.	
	<b>(Lump sum Amount in Words _____ only)</b>			

- Note:** 1. Individual item rates for the above schedules will be arrived based on the lumpsum amount quoted by the bidder in the Sl.no.83 & % percentage weightage indicated against each schedule. This amount shall be rounded off to the nearest Rupee.  
2. Applicable/Quoted Service tax amount towards sl. nos. 1 to 82 will be extra & same will be taken into account while evaluating total cost to BHEL , for arriving at L1 bidder . Applicable service tax on the BHEL Free issue materials will be as per NIT Clause no. 51 (Page no.14 & 15).  
3. Any other entry elsewhere (individual item rate, if any) in the Price bid by the bidder shall be treated as Null and Void .  
4. Payment shall be made for the actual quantities of work executed at the unit rate arrived as per Sl.no.1.

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