

**BILL OF QUANTITIES FOR ELECTRICAL & LAN CABLING RENOVATION WORKS FOR SBI  
BAIPARIGUDA BRANCH, REGION-I, JEYPORE**

SI No	DESCRIPTION	QUANTITY	UNIT	RATE (in Rs)	AMOUNT (in Rs)
<b>PART - I. MAIN PANEL AND DISTRIBUTION BOARD</b>					
01)	Supplying, fixing, testing & commissioning of L.T indoor wall mounted panel board made out of 18 gauge CR sheet properly painted with 2 coats of primer & 2 coats of enamel paint having compartmental arrangement with hinged door for each equipments including provision for cable/conduit entry, earthing stud & duly factory wired with following equipments & making good to the damages caused etc all complete as directed by engineer-in-charge.	1	Set		
	<b>Incoming:</b>				
	<b>Rating of MCCB (1 no.):</b> Rated Current – <b>63A</b> ; Short Circuit Breaking Capacity – <b>25kA</b> with <b>adjustable over load current</b> setting. Rated Voltage – <b>415V</b> ; Numbers of Pole – 4; Release type – <b>Microprocessor based trip unit</b> ; <b>Protection</b> – Over Current/Short Circuit & <b>Neutral over load</b> ; Ref. Standard – IEC60947-2				
	80A copper TPN busbar – 1 set				
	63A copper TPN busbar – 1 set				
	Multi function Digital Meter- 1 no. and phase indicating lamps.				
	63A, 4-pole on-load change over switch				
	<b>Outgoing:</b>				
	63A 4P MCCB – 1 No's (for AC)				
	40A DP MCB – 2 No's (UPS & spare)				
	32A DP MCB – 6 No's (LDB, RDB, motor, street lighting & Spare )				
	20 DP RCCB – 1 No's; Type Added immunity (timer with Contractor for Glow Signboard )				
02)	Supplying & fixing <b>63A HRC fuse</b> - 3 No's in MS enclosure with lock & key arrangements.	01	Set		
03)	Supply, fixing, testing & commissioning of company made double door MCB distribution board having provision of neutral & earthing stud, holes for cable with M.S. Conduit entry with following MCBs & making good to the damages caused etc. all complete.				
	LIGHT BDB having				
	Incoming : 32A, 100mA DP RCBO - 1 No				
	Outgoing : 10A SP MCB - 10 No's	1	Set		

04)	Supply of all required materials & labor for wiring to sub-main with following size 1100 V grade FRLS PVC insulated single core multi strand copper wire in <b>surface/recessed M.S. Conduit</b> & making good to the damages caused etc all complete as per directions of engineer-in-charge.				
a	( 2 X 6 sqmm + 1 X 6 sqmm ) from main panel to LIGHT DB's	25	Mtr		
b	( 2 X 2.5 sqmm + 1 X 2.5 sqmm ) from Light DBs to switch boards etc .	80	Mtr		
05)	Providing electrical wiring for light/ fan/ exhaust fan/ 5 Amp plug point by using ( 2 X 1.5 sqmm + 1 X 1.5 sqmm ) FRLS PVC insulated 1100 volt grade multistrand copper wire in <b>surface/recessed M.S. Conduit</b> with necessary saddles, clamps, bends, holder, ceiling rose, clip in type modular switches & sockets etc including required modular switch board & cover.				
a	Single Light/fan/exhaust fan point controlled by one 6A clip in modular type switch.	44	Point		
b	6A plug point on existing switch board having clip in modular type 1 no 6A switch & 1 no 6A socket.	10	Set		
c	6A plug point on separate board having clip in modular type 1 no 6A switch & 1 no 6A socket for wall fan	10	Set		
06)	Insulated safety Rubber MAT- 2.0mm thickness (as per IS:5424/69)at main panel and UPS room.	1	Set		
07)	Supply and fixing ding-dong calling bell with complete wiring as per direction of engineer in charge	1	No's		
08)	Supply and laying earthing with copper earth plate <b>600 mm X 600 mm X 6 mm</b> thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of <b>2.7 meter</b> long etc. with charcoal/ coke and salt as required.	2	Set		
09)	Supply & laying 25 mm X 3 mm copper flat from copper earthing to Main Panel.	30	Mtr		
10)	Supply & laying <b>1.1 kV, 4 Core, 25 sqmm</b> , aluminium conductor, XLPE insulated, armored cable having sector / circular shaped aluminium PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armored and overall extruded PVC sheathed confirming to IS: 1554, laid on wall / ceiling using GI clamps & spacers. the cost including end termination of cables including single compressed type brass glands, crimping type copper/Aluminium lugs, insulation tape etc. as 'required complete with earthing of glands as per route shown at site and further as directed by Bank Official/Engineer at site	25	Mtr		
			<b>SUB TOTAL</b>		

**PART - II. A.C WIRING WORK**

01)	Supply and installation of double door DB for AC system: <b>Incoming:</b> 63A 4P MCB; <b>Outgoing:</b> 32A DP MCB – 6 no's.	1	Set		
02)	Supply & installation of two way metal distribution board with 32A DP MCB	5	Set		
03)	Supply of all required materials & Labour for wiring to submain with following size 1100 V grade <b>FRLS PVC insulated</b> five/three core multistrand copper wire in <b>surface/recessed M.S. Conduit</b> & making good to the damages caused etc all complete.				
a)	( 4 X 10 sqmm + 2 X 6 sqmm ) from main panel board to ACDB.	25	Mtr		
b)	( 2 X 6 sqmm + 1 X 6 sqmm ) from ACDB to 2.0/1.5TR AC starter DP MCB's.	85	Mtr		
			<b>SUB TOTAL</b>		

### **PART - III. COMPUTER WIRING WORKS**

01)	Supply, fixing, testing & commissioning of company made double door MCB distribution board having provision of neutral & earthing stud, holes for cable/conduit entry with following MCBs & making good to the damages caused etc. all complete.				
a.	Supplying & fixing UPS Input DB having				
	Incoming : 40A, DP MCB – 02 No	01	Set		
	Supplying & fixing UPS Output DB having				
	Outgoing : 40A, DP MCB – 02 No	01	Set		
b.	Supplying & fixing Computer DB having				
	Incoming : 32A, 100mA DP RCBO - 1 No	1	Set		
	Outgoing : 10A SP MCB -10 No's				
c.	Supplying & fixing Raw Power BDB having				
	Incoming : 32A, 100mA DP RCBO - 1 No	1	Set		
	Outgoing : 10A SP MCB - 10 No's				
02)	Supply of all required materials & Labour for wiring to submain with following size 1100 V grade FRLS PVC insulated single core multistrand copper wire in <b>surface/recessed M.S.Conduit</b> & making good to the damages caused etc all complete as per directions of engineer-in-charge.				
a.	( 2 X 6 sqmm + 1 X 6 sqmm ) from main panel to UPS i/p, Raw Power DBs & UPS to UPS Output DB, UPS Output DB to CDB.	45.00	Mtr		
b.	( 2 X 2.5 sqmm + 1 X 2.5 sqmm ) from CDB to UPS power point & Raw Power DB to Raw Power point.	310.00	Mtr		
03)	Supplying & fixing computer terminal board of approved make having clip in modular type 2 no's 6A switch, 4 no's 6A socket socket & 1 no indicator (UPS Power).	7.00	Set		
b.	Supplying & fixing computer terminal board of approved make having clip in modular type 3 no's 6A switch, 3 no's 6A socket socket (Raw Power).	6.00	Set		

04)	Supply and laying of earthing with copper earth plate <b>600 mm X 600 mm X 3 mm</b> thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and <b>watering pipe of 2.7 meter</b> long etc. with charcoal/ coke and salt as required.	1	set		
05)	Supply & laying <b>25 mm X 3 mm Copper flat</b> from copper plate earthing to UPS DB.	25	Mtr		
<b>SUB TOTAL</b>					

**PART- IV. FITTING & FIXTURE.**

1)	Supply & fixing 18W recess mounted LED square down lighter of approved make.	24	No's		
2)	Supply & fixing 36W high lumen output LED recess mount/suspended slim panel (2x2) of approved make.	1	No's		
3)	Supply & fixing 20W wall mounted batten LED light set of approved make.	6	No's		
4)	Supply & fixing 400mm sweep wall mounted fan of approved make.	10	No's		
5)	Supply & Fixing 300mm swipe exhaust fan of approved make.	2	No's		
6)	Supply & fixing 50W LED street light fitting of approved make with IP68 protection of approved make	5	No's		
7)	Supply & laying 2.5mm <sup>2</sup> 3-core copper service cable for street lighting with clamping at suitable points with MCB control enclosed in a metal box of IP 68 rating	65	Mtr		
8)	Supply and fixing timer for street lighting	1	No's		
<b>SUB TOTAL</b>					

**PART-V. LAN CABLING WORK.**

1)	Supply & fixing information outlet box suitable for RJ 45 terminals including PVC mounting box & top cover ( Make D-LINK, AMP, HCL )	13	Set		
2)	Supply & laying E-CAT 6 UTP cable in PVC conduit including termination on either end. ( Make D-LINK, AMP, HCL )	260	Mtr		
3)	Supply & fixing 9" U wall mounted modem rack with power distribution box, cable manager, cantilever self, fan & mounting kit etc all complete. ( Make Valrack, Comrack, HCL )	1	Set		
4)	Supply & fixing 24 port DATA SWITCH( Make D-LINK, AMP, HCL )	1	No		
5)	Supply & fixing 24 port PATCH PANEL ( Make D-LINK, AMP, HCL )	1	No		
6)	Supply & fixing 1 Mtr long E-CAT 6 PATCH Cord ( Make D-LINK, AMP, HCL )	13	No		
7)	Supply & fixing 2 Mtr long E-CAT 6 PATCH Cord ( Make D-LINK, AMP, HCL )	13	No		
<b>SUB TOTAL</b>					
<b>Total (Rs.)</b>					