

**Bill of Quantities for : Proposed Electrification work for Upcoming Vatva Branch & On Site ATM, Ahmedabad  
for Punjab & Sind Bank, Gujarat Zone.**

Sr. No.	Description	Qty.	Rate	Unit	Amount
<b>1.0</b>	<b>ELECTRICAL WIRING:</b>				
1	<p>Supply, Installation, Testing and Commissioning of following point wiring as per the specifications and drawings. The unit rate for the switch board and further to point outlet including all hardware, connector strips, fan hook, outlet boxes, switch boards, switch plates, switches, wire conduits etc. A point shall include in addition to phase and neutral wire, a PVC insulated earth-continuing wire from L.P. to the final termination at outlet points. All the wiring should be done in concealed/semi concealed open manner or slab/ wall/false ceiling. The wiring should be done with rigid PVC conduits/Casing-capping having minimum of 1.6 mm wall thickness and minimum 19mm dia with 440V grade PVC insulated. ISI approved copper conductor wire, with approved make switches and accessories with company boxes for point outlet and SB and with all required hardware accessories to complete the wiring. No junction boxes are allowed anywhere in the wiring. All joints shall be done at point outlet on switchboards only. In between joints are not allowed anywhere. The wiring shall be done as per IS 732 and IS 4648.</p> <p><b><u>ALL POINT WIRING INCLUDING RESPECTIVE CIRCUITS.</u></b></p> <p>(A) Making Zari in the wall &amp; sami finishing the surface. (B) Ball and socket joint wherever required. (C) Earthing of Fittings. (D) Electrical connections from the outlet points to the fixture with 3 core flexible wire. (E) The size of the wire will be as follows normal point wiring from SB to point outlet boxes. Phase-neutral: 1.5 sq. mm. Earth: 1.0 sq. mm. SB mains from l.p. to SB from l.p to 5 Amp. Plug point for freeze/geyser etc. Phase-neutral: 2.5 sq. mm. Earth: 1.5 sq. mm. Wiring for 15 Amp. Plug point for freeze/geyser etc. Phase-neutral: 4.0 sq. mm. Earth: 2.5 sq. mm. Wiring for 20 Amp. Plug point for A.C. Phase-neutral: 6.0 sq. mm. Earth: 2.5 sq. mm. Two parallel 15 Amp. Plug points for first point Phase-neutral: 6.0 sq. mm. Earth: 2.5 sq. mm. For second point looping Phase-neutral: 4.0 sq. mm. Earth: 2.5 sq. mm.</p>				

1.1	One light point controlled by one 5 Amp. Switch including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	27		No.	
1.2	Two light point controlled by one 5 Amp. Switch including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	7		No.	
1.3	Three light point controlled by one 5 Amp. Switch including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	2		No.	
1.4	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch loped on switch board including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	13		No.	
1.5	Three 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch at convenient location for computer <b>UPS Power Board</b> including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	8		No.	
1.6	Three 5 Amp. 5 pin socket outlet controlled by one 5 Amp switch at other convenient location for <b>RAW Power Board</b> including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	8		No.	
1.7	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch at other convenient location for wall/exhausr fans including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	8		No.	
1.8	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch and Electronic hum free step regulator for ceiling fan point including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	3		No.	
1.9	One buzzer/bell point controlled by one bell push, with electric type buzzer/bell including 2.5 sq. mm. with 1.5 sq. mm. earth wire single phase 3 wire	1		No.	
1.10	One 15 Amp. 6 pin socket outlet controlled by one 15 Amp. Switch with indicator including 4.0 sq. mm. with 2.5 sq. mm. earth wire single phase 3 wire	4		No.	
1.11	One 20 Amp. 6 pin socket outlet controlled by one 25 Amp.SP MCB with industrial Metal Plug and socket etc. complete including 6.0 sq. mm. with 2.5 sq. mm. earth wire single phase 3 wire	4		No.	
1.12	20 Amp power point for Glowsign board with L & T time switch & with 20 Amp. SP MCB with 4.0 sq. mm. with 2.5 sq. mm. earth wire single phase 3 wire	1		No.	
<b>SUB TOTAL OF ELECTRICAL WIRING</b>				<b>Rs.</b>	
<b>2.0</b>	<b>CABLES &amp; CABLE TERMINATIONS:</b>				
2.1	Supplying & Laying PVC armoured cable of 1100 V grade of copper/ conductor (as specified) of following sizes in ready made trench mounted on wall with necessary clamping arrangement or in prelaidd RCC hume pipe with necessary cable identification lugs at both ends, digging of trench and its filing with second call bricks, sand. The cables shall ISI mark and conforming to latest ISS. All the cable shall be terminated lugs.				
a	3c x 10 sq. mm. Copper Flexible Cable (for UPS Input/Output)	10		Mtr.	
b	4c x 10 sq. mm. Copper armoured cable (Panel to DB)	20		Mtr.	
c	4c x 16 sq. mm. Copper armoured cable (E meter to Panel)	50		Mtr.	
d	4c x 25 sq. mm. Copper armoured cable	15		Mtr.	
<b>SUB TOTAL OF CABLES &amp; TERMINATIONS</b>				<b>Rs.</b>	
<b>3.0</b>	<b>EARTHING:</b>				
3.1	Providing & erecting Chemical earth pit of minimum bore dia. 225mm size ASH or approved make Safe Earthing Electrode consisting pipe in pipe Technology as per IS 3043-1987 made of corrosion free G.I. pipes having outer pipe dia. of 80mm having 80-200 micron galvanising. Inner pipe dia of 40mm having 200-250 micron galvanising. Connection terminal dia. of 14mm with constant ohmic value surrounded by highly condctive compound with high charge dissipation suitable complete in all respect with making of chamber and all for following type of applications. (A) for electrical installation up to 440 V length of Copper pipe - 3Mtr & back filling compound - 1no. of bag 25kg.	2		No.	
3.2	Supply and Laying of 8 SWG copper wire in 20mm dia. PVC pipe with proper saddling with minimum distance at 1.5 feet.	90		Mtr.	
<b>SUB TOTAL OF EARTHING</b>				<b>Rs.</b>	

<b>4.0</b>	<b>LIGHTING FIXTURES AND FITTINGS:</b>				
	Supply, installation, testing and commissioning of the following fixtures and fittings. The fixtures shall be installed on wall, false ceiling etc. and as per the manufacture instructions. The job also includes the connection of the fixture with outlet point using 3 core flexible wire Wherever the lighting fixtures are there.				
4.1	36 W (2'X2') LED SLIM PANEL light fitting CROMPTON/HAVELLS/PHILIPS/WIPRO MAKE	12		Nos.	
4.2	15 W LED SLIM PANEL Down light fitting CROMPTON/HAVELLS/PHILIPS/WIPRO MAKE	22		Nos.	
4.3	20 W LED tube light fitting (CROMPTON/HAVELLS/PHILIPS/WIPRO)	8		Nos.	
4.4	300mm dia. Exhaust Fan fitting (CROMPTON/BAJAJ MAKE)	3		Nos.	
4.5	1200 mm Ceiling fan fitting (CROMPTON/BAJAJ/USHA/ORIENT MAKE)	3		Nos.	
4.6	18" High flow Wall mounted fan (CROMPTON/BAJAJ MAKE)	5		Nos.	
	<b>SUB TOTAL OF FIXTURE AND FITTINGS</b>			<b>Rs.</b>	
<b>5.0</b>	<b>PANEL BOARD/DISTRIBUTION BOARDS</b>				
5.1	Supplying & erecting complete with 14/16 SWG complete floor/wall mount type with required compartment including cables end box and gland/termination as required. S.F.U. (HRC type) 100 A -1 no.	1		No.	
5.2	Supplying & erecting complete with 14/16 SWG complete floor/wall mount type with required compartment including meters & lamps with following materials: S.F.U.(HRC type) 100 A-1 No. & 63 A FP COS-1 no., Phase Changer EL+MCB-63 A FP 100 mA - 2 Nos. & 40 A DP 100mA EL+MCB 1 No. A meter & V (Digital) meter with selector switches R Y B Lamp with indicator and required cable glands etc.	1		No.	
5.3	Supplying & Installing, Testing & Commissioning of DB with following: (For Lighting Purpose) Incoming: 63 A FP EL+MCB-1No. Outgoing: 40 A DP MCB-3 Nos. 16/10/25 Amp. SP MCB -12 Nos.	1		No.	
5.4	Supplying, installing, testing & commission of Distribution Board with following: (For A.C. Units) Incoming: 63 A FP EL+MCB-1No. Outgoing: 25 A DP MCB-8 Nos.	1		No.	
5.5	Supplying, installing, testing & commission of Distribution Board with following: (For UPS Units) Incoming: 63 A DP 100mA (EL+MCB) - 1 No. Outgoing: 40 DP MCB -2 No. & 10/16 A SP MCB - 12 Nos.	1		No.	
5.6	Supplying, installing, testing & commission of Distribution Board with following: (For E-Lobby/ATM) Incoming: 40 A DP 100mA (EL+MCB) - 1 No. Outgoing: 40 DP MCB -2 No. & 10/16 A SP MCB - 2 Nos.	1		No.	
5.7	Supplying, installing, testing & commission of Distribution Board with following: (For UPS Units) Industrial Plugs & Socket Boards with 40 DP MCB - 1No. (FOR UPS INPUT AND OUTPUT SUPPLY ONLY)	1		No.	
	<b>SUB TOTAL OF PANEL BOARD/DISTRIBUTION BOARDS</b>			<b>Rs.</b>	

<b>6.0</b>	<b>INTERCOM TELEPHONE</b>				
6.1	Supply and lying of RJ-11 type telephone cosket with 2 pair telephone wire ISI marked PVC Insulated 0.63mm sq. mm. Copper conductor wire same as clause No. 1 of Internal wiring from EPABX to the various tables as per the requirement complete in all respect as per the drawing and instruction of Architect/Consultant.	6		Nos.	
6.2	Supply & installation of 10 pair crone terminal DP Box.	2		Nos.	
6.3	Supply and lying of 10 pair telephone wire ISI marked PVC Insulated 0.63mm sq. mm. Copper conductor wire same as clause No. 1 of cabling/wiring from BSNL DP to the various locations as per the requirement, complete in all respect and as per the drawing an Architect or consultant.	20		Mtr.	
	<b>SUB TOTAL OF INTERCOM TELEPHONE</b>			<b>Rs.</b>	
<b>7.0</b>	<b>LAN/STRUCTURE CABLING WORK:</b>				
7.1	Supply and laying of CAT-6 I/O with face plate and surface making box with crimping including 4 Pair UTP LAN cable (D-Link) CAT-6 in underground/wall in 1.5 mm thick PVC pipe of 25mm dia with proper junction box for maintainance purpose from server room to each work station etc. complete as per direction.	9		No.	
7.2	Supply & testing at patch cord.				
a	Length 1 Meter (Make D-Link)	9		No.	
b	Length 2 Meter (Make D-Link)	9		No.	
7.3	Supply, installation & testing of 9U Rack with 2 fans & power point having two shelf in the rack	1		No.	
7.4	Supply, installation & testing of 24 port patch panel.	1		No.	
7.5	Supply, installation & testing of 24 port switch	1		No.	
7.6	Testing and connection of rack, patch panel/switch/router and modem etc. from old premises to new premises as directed.	1		No.	
	<b>SUB TOTAL OF LAN/STRUCTURE CABLING WORK:</b>			<b>Rs.</b>	
<b>8.0</b>	<b>MISCELLANIOUS ITEMS</b>				
8.1	Supplying, installation and commissioning of automatic 24 HRS. programmable TIMER of required capacity to run A.C. alternately (MDS/ L&T/ Other reputed make) for ATM A.C. machine.	1		No.	
8.2	Supply and installation of Medium Voltage Danger Noice Board made of 2mm thick size 200 MM X 150 MM M.S. Plate vetreous enemel white/figure in hindi and local language, skull and bones in single red colour and as per I.E. Rules and Indian Standards.	5		No.	
	<b>SUB TOTAL OF MISCELLANIOUS ITEMS Rs.</b>			<b>Rs.</b>	

BIMAL TALATI Architects & Interior Designers  
 304, President House, Opp. C.N.Vidhyalaya, Ambawadi, Ahmedabad - 380 006.

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 for Punjab & Sind Bank, Gujarat Zone.**

FINAL TOTALS AND DETAILS OF SUB TOTAL ITEMS WISE				
1.00	SUB TOTAL OF ELECTRICAL WIRING:		Rs.	
2.00	SUB TOTAL OF CABLES & TERMINATIONS:		Rs.	
3.00	SUB TOTAL OF EARTHING:		Rs.	
4.00	SUB TOTAL OF SUPPLY OF LIGHTING FIXTURE/FANS		Rs.	
5.00	SUB TOTAL OF PANEL BOARD/DISTRIBUTION BOARDS:		Rs.	
6.00	SUB TOTAL OF INTERCOM TELEPHONE:		Rs.	
7.00	SUB TOTAL OF LAN/STRUCTURE CABLING WORK:		Rs.	
8.00	SUB TOTAL OF MISCELLANIOUS ITEMS:		Rs.	
	FINAL TOTAL OF ELECTRICALS		Rs.	
	ADD FOR GST @ ____ % ON RS.		(+)	Rs.
	FINAL TOTAL OF ELECTRICAL WORK		Rs.	

Rupees

Name of Contractor with Seal & Signature

Date :

Place :