

Bill of Quantities for : Proposed Electrification work at Alternate New Premises for BHAVNAGAR PARA Branch & ATM, Bhavnagar for UCO Bank, Ahmedabad Zone.

SL. NO.	ITEM DESCRIPTION	QTY.	RATE Rs.	UNIT	AMOUNT Rs.
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1.0 ELECTRICAL WORK

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- 1.1 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 natural 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 switch boards only. In between joints are not allowed anywhere. The wiring shall be done as per IS 732 and IS 4648.

ALL POINT WIRING INCLUDING RESPECTIVE CIRCUITS.

- Making Zari in the wall & same finishing the surface.
- Ball and socket joint wherever required.
- Earthing of fittings
- Electrical connections from the outlet points to the fixture with 3 core flexible wire.
- 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 : 4.00 sq mm

Earth : 2.5 sq mm

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1.1	One light point controlled by one 5 Amp. Switch	50.00 nos		no	
1.2	Two light points controlled by one 5 Amp. Switch.	16.00 nos		no	
1.3	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch looped on switch board.	20.00 nos		no	
1.4	Three 5 Amp. 5 pin socket outlet controlled by one 5 Amp. at other convenient location for computer UPS POWER.	10.00 nos		no	
1.5	Three 5 Amp. 5 pin socket outlet controlled by one 5 Amp. at other convenient location for computer RAW POWER.	10.00 nos		no	
1.6	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp switch at other convenient location for wall fans.	7.00 nos		no	
1.7	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp switch at other convenient location for exhaust fans.	4.00 nos		no	
1.8	One 5 Amp. Switch controlled by one electronic fan regulator for ceiling fan point.	4.00 nos		no	
1.9	One buzzer point controlled by one bell push, with electric type buzzer.	1.00 nos		no	
1.10	One 15 Amp 6 pin socket outlet controlled by one 15 Amp. Switch with indicator.	2.00 nos		no	
1.11	One 20 A power plug point controlled by one 20 A DP switch for split AC with wires & conduit.	7.00 nos		no	

2.0 CABLES & CABLE TERMINATIONS :

Supplying & laying PVC armoured cable of 1100 V grade of scopper / 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, send. The cable shall ISI mark and conforming to latest ISS. All the cable shall be terminated with suitable sizes of Lugs.

2.1	4c x 6 sq mm Copper Flexible cable (for UPS Input / Output)	12.00 mtr		mtr	
2.2	4c x 10 sq mm Copper armoured cable (Panel to UPS DB)	15.00 mtr		mtr	
2.3	4c x 16 sq mm aluminum armoured cable	20.00 mtr		mtr	
2.4	3.5c x 35 sq mm Alluminium armoured cable (E Meter to Panel))	30.00 mtr		mtr	

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3.0 EARTHING

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 14 mm with constant ohmic value surrounded by highly conductive 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 - 1 Mtr & back filling compound - 1 no. of bag of 25 Kgs.	2.00 nos		no	
3.2	Supply and laying of 8 SWG Copper Conductor in PVC Conduit saddling with minimum distance at 1.5 feet.	80.00 mtr		mtr	

4.0 SUPPLY & INSTALLATION OF LIGHTING FIXTURES AND FITTINGS :

Supply, Installation, testing and commissioning of the following luminaires, fixtures and fittings. The fixtures shall be installed on wall, false ceiling etc. and as per the manufacturer 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 LED concealed/surface mounting fitting C&S/PHILIPS/CROMPTON/WIPRO MAKE	25.00 nos		no	
4.2	15 W LED concealed/surface mounting Down light fitting C&S/PHILIPS/CROMPTON/WIPRO MAKE	30.00 nos		no	
4.3	20 W LED Patti type lube light fitting C&S/PHILIPS/CROMPTON/WIPRO MAKE	10.00 nos		no	
4.4	1200mm (48") ceiling fan complete without regulator CROMPTON/HAVELLS/BAJAJ/ORIENT MAKE	4.00 nos		no	
4.5	16" Exhaust heavy duty Fan CROMPTON/HAVELLS/BAJAJ/ORIENT MAKE	3.00 nos		no	
4.6	18" Wall Fan High flow wall mounted Metal Body CROMPTON/HAVELLS/BAJAJ/ORIENT MAKE	R.O.		no	

5.0 PANEL BOARD / DISTRIBUTION BOARDS :

5.1	Supplying and erecting complete with 14/ 16 SWG complete floor / wall mount type with required compartment including cable end box and gland / termination as required. S.F.U. (HRC type) 100 A - 1 no.	1.00 no		no	
5.2	Supplying and 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. & 100 COS - 1 No EI + MCB - 40 A 100 mA - 3 nos & 40 A 100mA EI + MCB-1no A meter & V meter with selector switch (digital) R Y B Lamp with indicator and required cable glands etc.	1.00 no		no	

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5.3	Supplying and installing, testing and commissioning of DB with following ; (for lighting Purpose) Incoming : 63 A FP EL + MCB - 1no. Outgoing : 16/10/25 Amp. SP MCB -12 nos.	1.00 no		no	
5.4	Supplying, installing, testing & commission of distribution board with following : (for UPS units) Incoming : 63 A DP 100m A (EL + MCB) -1no. Outgoing : 40 DP MCB - 2 No & 10/16 A SP MCB - 10 nos	1.00 no		no	
5.5	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)	2.00 no		no	
5.6	Supplying, installing testing & commission of Distribution board with following : (For A. C. Units) Incoming : 63 A 100mA (FP + MCB) -1no. Outgoing : 40 DP MCB - 2 No & 10/16 A SP MCB - 12 nos	1.00 no		no	
5.7	ATM Power Distribution Board : 32 A DP MCB - 2 nos., 20 DP MCB - 3 nos. etc. complete	1.00 no		no	
6.0	INTERCOM TELEPHONE :				
6.1	Supply and installation of RJ-11 telephone jack with metal/surface box as required including 2 pair .63 sq.mm telephone wire from Branch Krone box to RJ-11 telephone jack.	7.00 nos		no	
6.2	Supply and laying of .63 sq.mm 10 pair telephone wire in pvc pipe from BSNL Krone Box to Branch Krone box and Krone box to EPABX system.	20.00 mtr		mtr	
6.3	Supply and installation of 10 pair krone tag block with MS lockable Box.	2.00 nos		no	
7.0	LAN / STRUCTURE CABLING WORK :				
7.1	Supply and installation, testing and connection of Cat-6e information outlet with face plate and box, INCLUDING CAT-6 DATA CABLE IN PVC PIPE AS PER required from main ethernet switch to system point, ISDN, Lease line from BSNL Krone box to Rack.	12.00 nos		no	
7.2	Supply and installation of Cat-6e UTP cable in PVC pipe	25.00 mtr		mtr	
7.3	Supply & testing at patch cord.				
a	Length 1 Meter (Make D- link)	12.00 nos		no	
b	Length 2 Meter (Make D- link)	12.00 nos		no	

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7.4	Supply, intallation & testing of 9U rack with required power strip	1.00 nos		no	
7.5	Supply, intallation & testing of 24 port patch panel.	0.00 nos		no	
7.6	Testing and connection of patch panel/ switch/ router and modem, existing rack etc.	1.00 nos		no	
7.7	1.5 X 3C wire with 15 Amp top for power supply in sdv room	1.00 nos		no	
7.8	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.	1.00 nos		no	
7.9	SITC of 16A plug socket for a.c. machine as per requirement	7.00 nos		no	

Total **Rs** _____

ADD FOR GST @ ____ % ON RS.

(+) **Rs.** _____

FINAL TOTAL OF ELECTRICAL WORK

Rs. _____

Rupees

Name of Contractor with Seal & Signature

Date :

Place :