

BILL OF QUANTITIES FOR ELECTRICAL WORK AT CANARA BANK, BRANCH+ATM -SHAMSADABAD

S.NO.	DESCRIPTION OF ITEM	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	SITC of 200Amp Kit kat Fuse unit 3 nos with 200 Amp neutral link on wooden board (3' x 3') complete with connections (new).	1	Set		
ELECTRICAL PANEL					
2	<p>Design, manufacture, providing, storing & installing in position, effecting proper connection, testing and commissioning of panel made of 14 SWG, CRCA sheet steel. It shall be dust and vermin proof. It shall have compartmentalized construction with bus bar chambers, cable alley, cable glands plate etc. as required, duly painted from inside as well outside.</p> <p>It shall have the following - MAIN PANEL. 1 No. 100 Amp. TPN, MCCB (10 KA breaking capacity), Busbars. 100 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. Instruments. Multi function Meter for Voltage, Ampere, Power factor, KWH, Data 1 No. with CT 75/5</p> <p>Outgoing. 3 Nos. 63 Amp. TPN, ELCB (Power AC DB, Branch UPS DB and One Spare) 3 Nos. 25 Amp. TPN, ELCB (For Light/Fan DB, ATM UPS DB & Spare Feeder) 10 AMP DP MCB. 3 Nos (for Glow Sign board, ATM Lighting and Strong Room Lighting) 1 No., 63 Amp. Four Pole Change Over for D.G. Set. (Seperate from the panel)</p> <p>The design of panel should be got approved by the Architect before manufacturing. The job shall be completed, to the satisfaction of the Bank Engineer/Architect. Any deviation in specification/ distribution shall be viewed seriously.</p>	1	Set		
3	UPS I/P, O/P AND DISTRIBUTION				
a.	SITC of 40/32 AMP industrial socket along with DPMCB for UPS & Inverter I/P	3	Nos.		
b.	SITC of 20AMP industrial socket along with MCB for UPS & Inverter O/P	2	Nos.		
c.	SITC of 12 WAY SPN DB Double Door (1 No. 40 AMP DP MCB and 10 NOS. 6-10 AMP SPMCB) (Branch UPS Power Distribution for UPS Points at Manager Cabin (2nos.), ATM (1No.) and Staff counters (6nos.).	1	Nos.		
d.	SITC of 63Amp Rotary Phase selector switch complete with RYB indication lifht in incloser complete in all respects as required. (Branch UPS)	1	Nos.		
4	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
a.	4 WAY TPN DB Double Door (1 No. 20 AMP TP MCB and 12 Nos. 6-10 AMP. SPMCB in each outgoing circuit for Light, Fan & 6A Socket) all complete.	1	Nos.		
b.	4 WAY TPN DB Double Door (1 No. 40AMP TP MCB and 12 Nos. 20 AMP. SPMCB in each outgoing circuit for 5 Nos. ACs & 5 Nos. 15A Power Points, 2 spares MCBs.	1	Nos.		

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5 CABLES					
a.	SITC of 3.5 Core 25.0 Sq.mm Aluminium Armoured Cable (From Electric Meter to Electric Panel) , complete with end termination and all respect as required.	15	Mtr.		
b.	SITC of 4 x 6.0 Sq.mm Copper Wire + 1 x 4.0 Sqmm Copper Earth Wire (Panel to UPS Incomer, LDP and UPSDB) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	55	Mtr.		
c.	SITC of 4 x 10.00 Copper Wire + 1 x 4.0 Sqmm Copper Earth Wire (Kit Kat fuse unit to AC / POWER DB) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	15	Mtr.		
d.	SITC of 2 x 6.0 Sq.mm Copper Wire + 1 x 2.5 Sqmm Copper Earth Wire (Rotary Switch to UPS and UPS to UPS DB) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	18	Mtr.		
e.	SITC of 2 x 2.5 Sq.mm Copper Wire + 1 x 2.5 Sqmm Copper Earth Wire (Electric Panel Glow Sign Board) in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio and painting compete with end termination/lugs and in all respect as required.	12	Mtr.		
7 EARTHING					
a.	PIP technology GEL type 50mmdia 3000mm long earth electrode. One Earthing for Neutral grounding, One earthing for Panel body grounding, One earthing for UPS body grounding, One for UPS output	3	Nos.		
b.	12 SWG Bare Copper Earth Wire from earthing pit /Earth terminal to load point (UPS DB and Main DB etc)	60	Mtr.		
8 UPS POINT					
a	Supply & Installation of point wiring for Primary UPS or stabilized power plug points on workstations / table for computers using 3 x 1.5 Sq.mm copper conductor multi starnd FR PVC sheathed flexible wire pulled through floor raceways/conduit and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2 nos of 10A 3 pin sockets, 1 nos 16A 2/3 pin sockets, 1 nos 16A Switch (Modular) & 1 nos indicator, wired together forming one point. The earth wire of green color only. No secondary UPS Points to be made.	10	Nos.		
9 RAW POWER POINT 16A SOCKET POINT IN WALL ONLY					

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a.	Supply & Installation of point wiring for Primary Raw power plug points on walls only for computers using 2X4+1X2.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through already laid floor raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 2 nos of 16A 2/3/5 pin socket & 2 nos 16A Switch (Modular), wired together forming one point. The earth wire of green color only. No secondary Points to be made.	10	Nos.		
11	DATA CABLING & POINT THERE MUST BE MINIMUM 3FEET DISTANCE BETWEEN DATA AND				
	Supplying and laying of D-Link make CAT-6 (UTP) cable through trenches / conduits.				
a.	Supplying and laying D-link make CAT-6 Cable complete with CAT-6 information outlet with plate & surface Box at individual Tables	10	Nos.		
b.	Supplying and fixing of 2 mtr long crimped patch cord	10	Nos.		
c.	Supplying and fixing of 1 Mtr long crimped patch cord	10	No.		
d.	Jack Panel - 24 ports	1	No.		
e.	SITC of 9U Rack including wire manager, power supply card, hardwares etc. complete in all respects	1	No.		
12	VOICE NETWORKING				
a.	Supply and fixing of 10 pair telephone MDF consisting of tag blocks, disconnecter type, complete with powder coated metal enclose, krone tag block mounting arrangement telephone distribution chart and locking arrangement [for P&T/EPABX]	1	Job		
b.	Supplying and laying telephone cables 0.5mm dia 2 pair electrolytic tinned copper conductors PVC insulated and twisted pair with rip cord, through PVC conduits/Raceways and RJ11 telephone socket outlet. The rate shall include termination at both ends on tag blocks.				
(i)	2 Nos. RJ11 Telephone socket with plate and box (1-Manager Cabin, 1- Advances, 1-Audit Officer, 1-Cash Officer)	3	No.		
13	FIXTURES				
	SITC of following fixtures as per make list				
a.	LED Square Light (2' x 2') fitting (white) - 36 Watts Philips LED Recessed Panel Light Square 36W (RC370B LED30S-6500)	5	Nos.		
b.	LED Down Lighter (white) - 9 Watts Philips Aura Style Edge 10w Led Downlighter, (Round Recessed Thin Trim, 47mm)	10	Nos.		
c.	LED Tube Light Patti Type (white) - 18 Watts Make/ Brand as per MAKE LIST	12	Nos.		
d.	Ceiling Fan - 900mm Make/ Brand as per MAKE LIST	2	Nos.		
e.	Wall Mounted 80/100 watt metal body Fan - 450mm, 1300 to 1500RPM Make/ Brand as per MAKE LIST	17	Nos.		

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f.	Exhaust Fan Metal Body - 300mm Make/ Brand as per MAKE LIST	2	Nos.		
g.	Call Bell Wireless	1	No.		
h.	LED Bulb with holder (white) - 9 Watts	2	Nos.		
TOTAL (excl. GST) (Rs.)					0.00