

Premises & Estate Section, Circle Office Agra, First Floor, Sec-12-A/CC-1, Awas Vikas, Sikandra, Agra,
PIN - 282007

BOQ FOR ELECTRICAL WORKS AT: BRANCH & ATM LOBBY AT CANARA BANK, RATAUL BRANCH, DIST. BAGHPAT.

S. NO.	DESCRIPTION OF ITEM	QTY	UOM	RATE (Rs.) (Excl. GST)	AMOUNT (Rs.) (Excl. GST)
1	SITC of 3 Nos. 100 Amp. Kit-kat Fuse unit along with 100 Amp. neutral link on wooden board complete with connections complete in all respect to the satisfaction of Bank.	1.00	Set		
2	<p>ELECTRICAL PANEL Design, manufacture, providing, storing & installing in position, effecting proper connection, testing and commissioning of panel made of 16 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. It shall have the following: MAIN PANEL: 2 No.100 Amp. TPN, MCCB (25 KA breaking capacity), Bus bars 100 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. Aluminum busbars with colour coded PVC heat shrinkable sleeves. <u>There should be 2 sets of BUS BAR in such a way that AC load should not be connected to GENERATOR power.</u> 100 Amp. Changeover Switch Instruments: Digital Multi function Meter of standard make for displaying Input Voltage, Ampere, Power factor, KWH used with CTs.</p>	1.00	Job		
	<p>OUTGOING: 5 Nos. 32 Amp. TP MCB (For LDB, PDB, Branch UPS, Inverter and Spare Feeder) from Generator Powered Bus 1 No. 63 Amp. TP MCB (For AC Outgoings) and 1 No. 63 Amp TP MCB as Spare Feeder from Non-Generator Powered Bus. 3 Nos. 6-16 AMP DP MCB. (for Glow Sign board, Strong Room, and ATM UPS) from Generator Powered Bus.</p>		Internal		
	Panel must be designed in such a way that while closing the branch in evening there must be power supply for UPS Charging and ATM rest all other supply must be disconnected. The design of panel should be got approved by the Architect before manufacturing. Also, the provision for 1/2 spare outgoings should be considered for future expansion. The job shall be completed to the satisfaction of the Bank.				

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3	UPS I/P, O/P AND DISTRIBUTION				
3a.	SITC of 32/40 Amp. TP MCB in encloser Double Door complete (Branch & ATM UPS Incomer & Inverter Incomer) complete in all respects as required.	3.00	Nos.		
3b.	SITC of 20/32 AMP DP MCB with MS enclosure complete as per requirement and satisfaction of Bank. (1 for Branch's UPS Input, 2 for Branch's UPS Output; 1 for Inverter input & 1 for Inverter output)	3.00	Nos.		
3c.	UPS MASTER DB : SITC of 6 WAY SPN Double Door DB complete with 1 No. 40/32 AMP DP MCB as incomer and 2 NOS. 32/40 AMP DP MCB as outgoing for UPS power distribution points for ESSENTIAL LOADS & Computers Points DB	1.00	No.		
3c.1	SITC of 12 WAY SPN Double Door DB complete with 1 No. 40 AMP DP MCB as incomer and 10 NOS. 6-10 AMP SPMCB as outgoing for Branch UPS power distribution to Computer points on Staff Counters / Tables.	1.00	No.		
3c.2	SITC of 8 WAY SPN Double Door DB complete with 1 No. 32 AMP DP MCB as incomer and 6 NOS. 6-10 AMP SPMCB as outgoing for UPS power distribution points for ESSENTIAL LOADS like CCTV System, Fire & Burglar Alarm Systems, Networking Rack, ATM and select Light points powered by UPS.	1.00	No.		
3d.	SITC of 20/32 AMP DP MCB with MS enclosure complete as per requirement and satisfaction of Bank. (to be installed at main entrance to disconnect Computers Point UPS & Inverter Power supply at the time of closing the Branch)	2.00	Nos.		
3e.	SITC of 40/63 Amp. Rotary Phase selector switch complete with RYB indication in enclosure for Branch's UPS input power network and Inverter. Complete in all respect as required.	3.00	No		
3f.	SITC of a set of indication lamp set (4 Nos. RED, YELLOW, BLUE & GREEN Color) in a concealed PVC modular box.	1.00	No.		
3g.	Wiring in heavy duty PVC conduit of IS specification of proper size with 2 runs of 1.5sq.mm single core PVC insulated stranded copper wire 1.1KV grade (Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from Computer Counter DB, AC DB, LDB, PDB outgoing to a set of indication lamp set (4 Nos. RED, YELLOW, BLUE & GREEN Color).	110.00	Mtrs		
4	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
4a.	SITC of 4 WAY HTPN DB IP43,Iko9, complete with 1 No. 63 AMP TP MCB as incomer and 12 NOS. 6-20 AMP. SPMCB for out going as LDB, PDB & AC DB complete in all respect as required.	4.00	Nos.		

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4b.	SITC of 1 no. 10A DP MCB with MS enclosure with 1.0 mtr long 3 core 2.5 Sqmm Copper flexible cable for strong room power supply switch board installed at strong room gate complete in all respect as required.	1.00	Nos.		
5	CABLES				
	All cables / wires shall be routed through PVC conduits / bends / elbows etc., as required, of appropriate dia. The conduits shall be clamped firmly to the walls / columns / pillars etc. with clips / clamps and fasteners rigidly even if above false ceiling.				
	Complete job shall include cutting chiseling in walls, floor and making good of all chases / cuts etc. with combination of cement mortar, including painting with type and shade of existing wall. The work shall be completed to the satisfaction of Bank. NO CABLE / WIRE / CONDUIT SHALL BE VISIBLE IN THE BRANCH HALL / CUSTOMER LOBBY / STAFF WORKING AREA.				
5a.	SITC of <u>4.0 Core 25.0 Sq.mm Copper conductor Armoured Cable</u> for service line connection up to Kit kat fuse unit complete in all respect as required.	25.00	Mtr.		
5b.	SITC of 4 runs of 6.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated Multistrand Copper conductor wire from main Panel to (a) LDB (b) PDB (c) Branch UPS input power supply. (d) Inverter input Supply	60.00	Mtr.		
5c.	SITC of 4 runs of 10.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated Multistrand Copper conductor wire from main Panel to (a) ACDB	10.00	Mtr.		
5d.	SITC of 2 runs of 6.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated Multistrand Copper conductor wire from selector switches to UPS & Inverter and from UPS & Inverter to UPS Distribution boards & L&F DB Respectively	40.00	Mtr.		
5e.	SITC of Sub main Wiring for Strong room and Glow Sign Board with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper conductor FR pvc/ xlpe insulated Wire in required dia pvc conduit complete in all respects as required.	40.00	Mtr.		
6	AC POINT (Split AC)				
6a.	SITC of AC Point Wiring (1 TR & 1.5TR AC) with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & Modular plug & Socket with 10/16 Amp. SPMCB complete in all respect as required by the Bank (1 Point in BM Cabin & 2 Points for ATM ACs & 2 in Branch Hall)	3.00	Nos.		

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6b.	SITC of AC Point Wiring (2TR AC) with 2 No. 6.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & Modular plug & Socket with 10/16 Amp. SPMCB complete in all respect as required by the Bank (2 in Branch Hall)	4.00	Nos.		
7	EARTHING				
7a.	Preparation and commissioning of earth pits with PIP technology GEL type 50mm dia 3000mm long earth electro. (One Dedicated Earthing for Branch UPS & main panel)	3.00	Nos.		
7b.	Supplying and laying 25 X 3 mm copper strip direct on wall/ in ground with screws and washer including soldering / welding etc if required.	5.00	Mtr.		
7c.	SITC of Earthing conductor from earth terminal to load point with 6.0 sq mm multistrand copper conductor FR pvc / XLPE insulated cable in required dia pvc conduit complete in all respect as required.	80.00	Mtr.		
8	UPS POINT	15.00	Nos.		
	Supply & Installation of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3 X 1.5 Sq.mm copper conductor multi strand FR PVC sheathed flexible wire including PVC conduit laid floor raceways/conduit and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 No. Phase Indication light, 1 No. 16A Switch, 1 No. 16Amp and 2 Nos 6A, 5/6 pin sockets & wired together forming one point. The earth wire of green color only.				
9	RAW POWER POINT	12.00	Nos.		
	Supply & Installation of point wiring for Raw power plug points on workstations / table for computers using 2 X 2.5 Sq.mm and 1 X 1.5 sq.mm copper conductor PVC sheathed flexible wire including PVC conduit raceways and taken upto table top using PVC rigid or flexible conduits run within wooden/metal partitions. Each point consisting of 1 nos of 16A, 6 pin socket controlled by 16A Switch + 1 nos of 6A 5 pin socket controlled by 6A switch wired together forming one point each. The earth wire shall be of green color only.				
	<u>One point must be provided in the customer lobby at a suitable place as per the instructions of the Bank / Architect for Water dispenser. Apart from this, no other power point to be provided in the customer lobby.</u>				
10	LIGHT/FAN POINT				

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	Supply & Installation of concealed point wiring using 600v grade 1.5 Sq.mm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling including 2 Nos. 2.5 sqmm circuit wires from the relevant DB and also including 2.5 sqmm green color copper earth wire and switch plate, switches, etc. as approved by the Bank's Engineer/Architect.				
10a.	Primary light points including the cost of 6A modular switch	65.00	Nos.		
10b.	Secondary light points looped from the above point	12.00	nos.		
10c.	Ceiling Fan Point including the cost of 6A Switch along with 5 step electronic fan regulator.	3.00	Nos.		
10d.	Wall Fan Point along with 6 AMP switch	14.00	Nos.		

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10e.	Exhaust Fan Point along with 6 AMP switch	4.00	Nos.		
10f.	Call Bell Point	1.00	Nos.		
10g.	Cove light points including the cost of 6A modular switch	3.00	Nos.		
10h.	6A Socket with 6A switch	6.00	Nos.		
	NOTE: None of the light / socket points must be in access of the customers or provided in the customer lobby.				
	Certain points in the B.M. cabin / Cash Cabin & branch hall/ back area are to be provided through the UPS without any extra cost.				
11	DATA CABLING & POINT				
	Supplying and laying of D-Link make CAT-6 (UTP) cable through trenches / conduits.				
11a.	Supplying and laying D-link make CAT-6 Cable in P.V.C. Conduit Complete with CAT-6 information outlet with plate & surface Box at individual Tables	12.00	Nos.		
11b.	Supplying and fixing of 1 mtr long crimped patch cord	12.00	Nos.		
11c.	Supplying and fixing of 2 mtr long crimped patch cord	12.00	Nos.		
11d.	Supplying and fixing of 16U Rack complete with exhaust fan, lockable front glass door, cable managers, electrical socket board etc.	1.00	Nos.		
11e.	Supplying and fixing of 24 port jack panel	1.00	Nos.		
12	FIXTURES				
12a.	Supply and Installation of 36W 2'x2' Square LED light fitting of approved make	20.00	Nos.		
12b.	SITC of surface mounted 20W LED batton light (One TL to be provided on the under surface of the customer top of the cash cabin)	24.00	Nos.		
12c.	SITC of 10W LED Down Lighter of approved make	14.00	Nos.		
12d.	SITC of 450mm Wall Mounted full metal body Fan of approved make.	14.00	Nos.		
12e.	SITC of 1200mm / 900mm Ceiling Fan of approved make with required down rod and hanging arrangement	3.00	Nos.		
12f.	SITC of 9" metal body exhaust fan of approved make.	4.00	Nos.		
12g.	SITC of Call Bell.	1.00	No.		
12h.	Angle holder complete in all respect with 9W LED lamp	4.00	Nos.		
12i.	SITC of LED cove light with sealed LED running light. Light shall be operated by power supply in respective vertical / horizontal coves in walls / false ceilings. Light shall be of approved colour as per directions of bank / Architect	20.00	RMT		

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TOTAL (Rs.)					
GST EXTRA AS APPLICABLE					