

ESTIMATE FOR ELECTRICAL WORKS AT: BRANCH AT CANARA BANK,CHAMPAWAT II BRANCH & ATM					
S. NO.	DESCRIPTION OF ITEM	QTY	UOM	RATE (Rs.) (Excl. GST)	AMOUNT (Rs.) (Excl. GST)
1	Making temporary connections and shifting of points all across the Branch and for workstations (Electrical, UPS and telephone) to enable smooth functioning of the branch during renovation all complete as per the instructions of Bank's Engineer/ Architect. Item to include supplying all wires, cables, conduits etc. for the same. Nothing extra shall be payable in this regard	1.00	Job		
2	SITC OF 100 Amps, TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/ Bank's Engineer.	1.00	Set		
3	<b>ELECTRICAL PANEL</b> 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: <b>MAIN PANEL:</b> 1 No.63 Amp. TPN, MCCB (25 KA breaking capacity), Bus bars 63 Amp., 3 phase, 4 strips, 415 volts, 50 Hz. copper busbars with colour coded PVC heat shrinkable sleeves. <b>There should be 2 sets of BUS BAR in such a way that AC load should not be connected to GENERATOR power.</b> 63 Amp. Changeover Switch Instruments: Digital Multi function Meter of standard make for displaying Input Voltage, Ampere, Power factor, KWH used with CTs.	1.00	No.		
	<b>OUTGOING:</b> 2 Nos. 32 Amp. TP MCB (For LDB, PDB, Branch UPS, Inverter and Spare Feeder) from Generator Powered Bus. 2 Nos. 63 Amp. TP, MCB (For AC DB and Spare Feeders) from Non-Generator Powered Bus. 2 Nos. 32 AMP DP MCB. 3 Nos (for Glow Sign board, Strong Room, and spare feeder) from Generator Powered Bus. The design of panel should be got approved by the Architect before manufacturing. Also, the provision for 1/2 spare outgoing should be considered for future expansion. The job shall be completed to the satisfaction of the Bank.				
4	<b>UPS I/P, O/P AND DISTRIBUTION &amp; INVERTER INPUT &amp; DISTRIBUTION</b>				
a.	SITC of 32/40 Amp. TP MCB in encloser Double Door complete (Branch and Inverter Incomers) complete in all respects as required.	4.00	Nos.		
b.	SITC of 20/32 AMP Modular plug & socket along with MCB & plug top complete as per requirement and satisfaction of Bank. (2 for Branch's UPS Input, 2 for Branch's UPS Output)	4.00	Nos.		
c.	SITC of 12 WAY SPN Double Door DB complete with 1 No. 40 AMP DP MCB as incomer and 12 NOS. 6-10 AMP SPMCB as outgoing <b>for Branch UPS power distribution to Computer points on Staff Counters / Tables.</b>	1.00	No.		
d.	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 <b>for UPS power distribution points for ESSENTIAL LOADS like CCTV System, Fire &amp; Burglar Alarm Systems, Networking Rack, ATM and select Light points powered by UPS.</b> Three way LED indicator lamps to be included with DB for power load , AC load and UPS load to be located in front of CCTV camera.	1.00	No.		
5	<b>RAW POWER &amp; FAN, LIGHTING DB &amp; AC DISTRIBUTION BOARD</b>				
a.	SITC of 4 WAY HTPN DB IP43,Iko9, complete with 1 No. 63 AMP TP MCB as incomer and 12 NOS. 6-32 AMP. SPMCB for out going as LDB, complete in all respect as required.	1.00	Nos.		
b.	SITC of 6 WAY HTPN DB IP43,Iko9, complete with 1 No. 63 AMP TP MCB as incomer and 18 NOS.18/20 AMP. SPMCB for out going as PDB & AC DB complete in all respect as required.	1.00	Nos.		
6	<b>CABLES</b>				
	<b>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.</b>				
	<b>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.</b> <b>NO CABLE / WIRE / CONDUIT SHALL BE VISIBLE IN THE BRANCH HALL / CUSTOMER LOBBY / STAFF WORKING AREA.</b>				
a.	SITC of 3.5 Core 50.0 Sq.mm Aluminium conductor Armoured Cable for service line connection up to Kit kat fuse unit complete in all respect as required.	20.00	Mtr.		

b.	SITC of 3.5 Core 35.0 Sq.mm Aluminium conductor Armoured Cable for service line connection up to Kit kat fuse unit complete in all respect as required.	16.00	Mtr.		
c.	SITC of 4 core 6.0 Sq.mm Copper conductor Unarmoured Cable from main Panel to (a) LDB (b) PDB (c) Branch UPS input power supply. <b>Note: In case inverter is present at the branch, the wiring from LDB should be with 2x6.0+1x2.5 sqmm wiring mentioned below and not with 4 core 6.0 Sq.mm Cable</b>	25.00	Mtr.		
d.	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 switch to UPS to UPS Distribution boards	24.00	Mtr.		
e.	SITC of 4 core 10.0 Sq.mm Copper conductor Unarmoured Cable from main Panel / Non Generator power Bus to (a) AC DB (b) Inverter	19.00	Mtr.		
f.	SITC of Sub main Wiring for Strong room, Single Phase AC 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.	25.00	Mtr.		
g.	SITC of 2 runs of 10.0 Sq.mm and 1 no. of 2.5 Sqmm FRLS PVC Insulated Multistrand Copper conductor wire from selector switch to inverter	24.00	Mtr.		
h.	SITC of 2C x 2.5 Sqmm copper earth wire from 6 way DB to network rack , CCTV Fire alarm etc	22.00	Mtr.		
i.	SITC of 2C x 1 Sq mm copper wire from main panel to 3 way LED indicator	22.00	Mtr.		
<b>7 AC (Split and Cassette ) POINT</b>					
a.	SITC of AC Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & Modular plug & Socket with 10/16/25 Amp. SPMCB complete in all respect as required by the Bank (for 1.0 / 1.5 Tr Hi-Wall Split ACs) The wiring shall be done form DB to indoor or outdoor as per requirement at site	2.00	Nos.		
<b>8 EARTHING</b>					
a.	Preparation and commissioning of earth pits with PIP technology GEL type 50mmdia 3000mm long earth electro. (One Dedicated Earthing for ATM UPS, Branch UPS and main panel)	2.00	Nos.		
b.	SITC of Earthing conductor from earth terminal to load point with 6.0 sq mm multstrand copper conductor FR pvc /XLPE insulated cable in required dia pvc conduit complete in all respect as required.	75.00	Mtr.		
<b>9 UPS POINT</b>					
	Supply & Installation of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3 X1.5 Sq.mm copper conductor multi strand FR PVC sheathed flexible wire including PVC conduite 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,3 Nos 6A , 5/6 pin sockets & wired together forming one point. The earth wire of green color only.				
<b>10 RAW POWER POINT</b>					
	Same as serial no.1, but providing power point by using 2*4.00 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1*4.0 sq.mm earth wire from D.B. to first point (Primary Point) and first to second point with 2*2.5 sq.mm. PVC insulated 1100 V grade copper conductor wire and 1*2.5 earth wire (Secondary Point). All wiring is to be provided in PVC conduit of suitable size. Each power point (Primary or Secondary) must include providing and fixing of a <b>dual socket combination of 1 no. 16 Amp 6 –pin socket with 16 Amp. switch &amp; 1 no. 6 Amp 5-pin socket with 6 Amp. switch</b> . The switches should be Modular type switch / socket / plate etc. complete assembly).				
	There shall be a maximum of 2 points per circuit				
	NOTE: The power point, complete as mentioned above, shall be placed on the low ht. / full ht. partition above the tables / counters at a suitable place to ensure convenient accessibility for staff.				
	Primary Point	5.00	Nos.		
	Secondary Point	5.00	Nos.		
<b>11 LIGHT/FAN POINT</b>					
	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.				
a.	One light points controlled by one 6 amp. Modular switch.	28.00	Nos.		

