

ESTIMATE FOR ELECTRICAL WORKS FOR CANARA BANK AT CIRCULAR ROAD, DISTT. MUZAFFARNAGAR					
S.No.	DESCRIPTION OF ITEM	QTY	UNIT	RATE	AMOUNT
1.a	SITC of 200 Amp kit kat unit with neutral link complete in all respect to the satisfaction of the Bank / Architect	1	No.		
1.b	SITC of 100 Amp Four Pole off load Change Over Switch complete in all respect to the satisfaction of the Bank / Architect	1	No.		
	MAIN ELECTRICAL DISTRIBUTION				
	Main Panel (wall Mounted Type)				
1.c	Supply, fabricating,assembling,internal- connection, testing & conncting with incomming, out going power cables & lines as required to complete the job of cubical type electrical panal made from 14SWG CRC. M.S. sheet with proper earthing terminal (Nut- bolt &washer) 02 No.outside of panal, same nut- bolt to tighten with internal earth busbar of panal situated inside loose wire box(on top portion of panel) On top side of panel cable entry arragement to be done for incomming & out going of lines. Painting powder coating electrical grey/ seimensgrey to be done.one 6"x4" enamel type 440Volt Danger board to fix up on main panal bus-bar cover, components are as follows :-All switches are front handle operated & all MCB knob should be visual, all component to provide in separate compartment only DBs in one compartment.	1	No.		
	Incomer - 100Amps 4pole Cu. Bus Bar. 01 Set. With 100A 4P MCCB 25Ka with adjustable thermal & Maqnetic trip unit -1 Nos				
	OUTGOINGS -				
	63 Amp 4 pole MCB: 6 Nos. (AC & Power DB, ATM, UPS, spare)				
	40 Amp 4 Pole MCB: 2 Nos. (Lighting DB,Spare)				
	25 Amps DP MCB: 2 Nos. (sign board, Fire Alarm)				
	Ampere Meter 0-100 Amns with 3 Nos. CT				
	20mmdia LED indicator lamp: 06 Nos.				
	02 Amps Sliding Fuse: 06 Set.				
	150x100mm enamel Danger board 440 volt.				
	(to set on bus bar cover): 01 No.				
	Cable entry from top & bottom - removable gland plates (bottom at 2 points) c/w powder coated Grey paint (two coats) with name labels for all incoming & outgoing feeders. The panel shall be complete in all respects including all accessories such as earthing bus, Air ventilators, lifting hooks etc.				
	(Supply to AC DB shall NOT be given through the Generator / Change Over Switch)				
2	UPS I/P, O/P AND DISTRIBUTION (Branch & ATM)				
a.	SITC of 63A TP MCB in Metallic enclosure complete in all respects as required.	1	No		
b.	SITC of 40A TP MCB in Metallic enclosure complete in all respects as required.	1	No		
c.	SITC of 63Amp Rotary Phase selector switch complete with RYB indication light in enclosure complete in all respects as required.	2	No		
d.	STIC of 32A industrial socket along with MCB for UPS I/P and O/P. (2 incomers + 2 Outgoings For branch & 1 Incomer & 1 Outgoing for ATM)	6	Nos.		
e.	SITC of 2+12 WAY SPN Double Door DB complete with all accessories and blanking plates, if required, as per the satisfaction of Bank / Architect (1 No. 40 AMP DP MCB and 12 Nos. 10-16A SPMCB) (Branch UPS Distribution Network 1 - For PCs on Tables and Counters)	1	No.		
f.	SITC of 8 WAY SPN Double Door DB complete with all accessories and blanking plates, if required, as per the satisfaction of Bank / Architect (1 No. 40 AMP DP MCB and 6 Nos. 10A SPMCB) (Branch UPS Distribution Network 2 - For Networking Rack, CCTV Systems, Security Alarms) (1 point to be given at the Branch Manager's Table for CCTV DVR, 1 Point to be given Inside the ATM Room from the Branch UPS)	1	No.		

g.	SITC of 4 WAY SPN Double Door DB complete with all accessories and blanking plates, if required, as per the satisfaction of Bank / Architect (1 No. 32 AMP DP MCB and 2 Nos. 10A SPMCB) (ATM UPS Distribution Network 2 - For Networking Rack, CCTV Systems, Security Alarms) (1 point to be given near the networking Rack in the Branch Premises & 1 Point Inside the ATM Room from the ATM UPS)	1	No.		
3	RAW POWER & FAN, LIGHTING DB & AC DISTRIBUTION BOARD				
a.	4 WAY Horizontal TPN Double Door DB (1 No. 63 AMP TP MCB and 12 NOS. 6-32 AMP. SPMCB complete with blanking plates, as required to the satisfaction of Bank Engineer / Architect) (RAW+LIGHT)	2	Nos.		
b.	4 WAY Horizontal TPN Double Door DB (1 No. 63 AMP 4P MCB and 10 NOS. 20-32 AMP. SPMCB complete with blanking plates, as required to the satisfaction of Bank Engineer / Architect) (AC Points for branch & ATM)	1	Nos.		
4	CABLES				
a.	Supply laying fixing main power with 50 mm sq 3.5 core PVC insulated,PVC sheated Alu.Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI.wire as running earth. (Meter panel to Main Panel)	12	Mtr.		
b.	Supply laying fixing wiring with 4X10.0 Sq.mm Copper Wire wire in PVC Pipe fixing on walls or chassing the walls and making it good with cement mortar of 1:5 ratio including Connecting ,testing etc. complete with lugs. (Kit Kat Unit to AC DB)	10	Mtr.		
c.	Supply laying fixing wiring with 4X6.0 Sq.mm Copper Wire (Panel to UPS Incomer, L&F DB & Power DB) with 1X4 Sqmm copper earth wire in PVC Pipe complete in all respect	120	Mtr.		
d.	Supply laying fixing wiring with 2X6.0 Sq.mm Copper Wire (Branch UPS OUTPUT to UPS DB) with 1X4 Sqmm copper earth wire in PVC Pipe complete in all respect	45	Mtr.		
e.	Supply laying of main line with 2x2.5 + 1x1.5 mmsq through PVC conduite from main panal to glow sign board.	20	Mtr.		
5	AC (Split+Cassette) POINT				
a.	SITC of AC Point Wiring with 2 No. 4.0 Sq.mm and 1 No. 2.5 Sq.mm Multistrand Copper Wire & 20 Amp. Metallic plug & Socket DB complete in all respect as required by the Bank (for 1.0 / 1.5 Tr Hi-Wall Split ACs)	4	Nos.		
b.	SITC of AC Point Wiring with 2 No. 6.0 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. (For 2 Ton Hi-Wall / Cassette AC)	4	Nos.		
6	EARTHING				
a.	SITC of PIP technology GEL type 50mm dia 3000mm long earth electrode complete to the satisfaction of Bank / Architect. (1 Each for main panel, AC DB, UPS & ATM)	4	Nos.		
b.	4.0 Sq. mm. Copper Wire FRLS from earthing pit /Earth terminal to load point (to Main Panel, UPS Incomer & AC DB) in PVC conduits complete to the satisfaction of Bank / Architect.	100	Mtr.		
7	UPS POINT	18	Nos.		
	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 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 3 nos of 5A , 2/3 pin sockets & 1 No., 15A Switch , wired together forming one point. The earth wire of green color only.				
8	RAW POWER POINTS	14	Nos.		

	Supply & Installation of point wiring for Raw power plug points on workstations / table for computers using 3 X2.5 Sq.mm copper conductor PVC sheathed flexible wire pulled through floor 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 , 2/3/5 pin sockets & 1 No., 16A Switch , wired together forming one point. The earth wire of green color only.				
9	LIGHT/FAN POINTS				
	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.	Primary light points including the cost of 10A modular switch	32	Nos.		
b.	Secondary light points looped from the above point	25	Nos.		
c.	Ceiling Fan Point including the cost of 10A modular Switch along with 5 step electronic fan regulator.	3	Nos.		
d.	Wall Fan Point SITC away point separate circuit from Light board / DB along with 10 AMP modular switch and Socket complete in all respect	13	Nos.		
e.	Exhaust Fan Point along with 10AMP modular switch	3	Nos.		
f.	6/10amp switch with socket in light & fan board	8	Nos.		
10	DATA CABLING & POINT				
a.	providing and laying UTP Cat 6 data cable for nodes through 25mm dia PVC conduit through floor, wall and partitions etc including all necessary materials from main Hub to building tag block(BSNL) & Branch to ATM	300	R.Mtr.		
b.	Wiring for computer networking from I/O hub to computer workstation with UTP Cat-6 computer cable including providing ferrules at both ends and termination at both ends including providing & fixing frame for with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes providing PVC conduits (1/2", 3/4" size or as required) in chases from the I/O hub to the point. The cost includes testing, commissioning etc complete. Note : Do not run more than 3 wire in single pipe & should be concealed. (2Nos of ATM)	16	Nos.		
c.	Supply of Cat - 6 D-Link patch cord 7' 0" (ATM 1No)	16	Nos.		
d.	Supply of Cat - 6 D-Link patch cord 3' 0"(ATM 1No)	16	Nos.		
e.	Supply & fixing 24 Port Jack Panel Make:-D-Link	1	No.		
f.	19" Rack 9U with Glass Door , Locking system Make: APW	1	No.		
g.	24PORT 10/100Mbps Switch	1	No.		
11	VOICE NETWORKING				
a.	Wiring for telephone points with 2 pair 4/5 pair .51mm dia ATC (annealed tinned Cu wire) with PVC insulated PVC sheathed telephone cable from tag block to the point including providing ferrules at both ends and termination at both ends including providing & fixing RJ 11 outlet, faceplate and mounting box complete of modular type 9 where 2 such points are shown, 2 such wires shall be provided) This work includes providing PVC conduits in chases from the raceway to the point. (1 each for branch manager, C.C. P. officer & Clerck).	8	No.		
c.	Supplying, laying effecting terminations, testing and commissioning of 0.51mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing & fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
(i)	1 X 10 pair armoured cable from telephone connection in the premises to the crone box.	75	R.Mtr.		
(ii)	Supplying & fixing 20 pair krone tag block with enclosure.	1	No.		

12	FIXTURES				
a.	2' X2' PLUTO NEO PANEL 4000K, CAT NO. LHEWEJP6PL 1W034, PHILIPS/WIPRO MAKE (ATM 2 No)	22	Nos.		
a.1	DOWNLIGHTER - INTEGRA 15W, 3000K, LHEBGTP5Z1W015, PHILIPS/WIPRO MAKE (ATM 2NOS)	47	Nos.		
c.	TUBELIGHT - TITANIA SLEEK NEW T5 LED TUBELIGHT 18W, LHLCNVENL8Z018, PHILIPS/WIPRO MAKE. ATM 1 No	12	Nos.		
c1	225 mm dia Heavy Duty Exhaust fan 230 volt A.C. (Havells / Crompton make). (UPS & Toilet)	3	Nos.		
d.	Wall mounting fan 400 mm dia 230 volt A.C. PHILIPS/WIPRO MAKE	11	Nos.		
e.	36" CEILING FAN WHITE COLOUR(ORIENT/KHAITAN).(UPS,Strong room & Store room)	3	Nos.		
f.	Angle holder complete in all respect with 18w CFL lamp (for Toilet and Strong	4	Nos.		
g.	Call Bell. Wireless	1	No.		
				TOTAL (Rs.)	
NOTE :- All work should be done as per Bank's Specification :- GST shall be paid extra as per Government norms at the time of billing					