

**ELECTRICAL WORK ESTIMATES FOR CANARA BANK AT CHENNURU BRANCH**

S.NO	DESCRIPTION	UNIT	QTY	Rate	Amount
	<b>INTERNAL ELECTRICAL WORKS-BRANCH</b>				
<b>E - 1</b>	<b>Lights Points(Including Circuit Wiring 2x2.5+1.5 Sqmm)</b>				
	Point Wiring for Light/ Fan/ Exhaust fan with 2runs of 650V grade 1.5 Sq.mm FRLS PVC & 1 run of 1.5 Sq.mm PVC insulated Copper wires , run in 25 mm dia heavy gauge PVC conduits concealed in wall / ceiling conforming to IS including all accessories such as junction boxes, conduit bends elbows and ceiling rose, anodised GI Switch box with modular switch and the box covered with front plate.( Point Wiring Include Circuit Wiring From Main Db to SWITCH Board with 2x2.5 +1.5 Sqmm Copper fluxible wire etc)				
<b>a</b>	One Light point controlled by one 6A switch.	Nos	14		
<b>b</b>	Two Lights point controlled by one 6A switch.	Nos	26		
<b>c</b>	Exhaust fan point controlled by one switch.	Nos	4		
<b>d</b>	Ups light point (from ups room to strong room ,cash manager and hall)	Nos	10		
<b>e</b>	Ceiling fan point controlled by one switch & Electronic Step type Regulator and Concealed MS fan hook box.	Nos	4		
<b>f</b>	Supply and fixing of 6A, 3Pin Socket outlet switches of 6A rating boards for Wall Mounting Fans and (Dependant				
<b>i</b>	Dependant fans	Nos	4		
<b>ii</b>	Independent Fans	Nos	6		
<b>E - 2</b>	Supply and Wiring with the following size 650V grade FR PVC insulated Copper conductor wires in suitable <b>PVC conduit</b> including end terminations with suitable lugs.				
	a)Supply and wiring of UPS Points wiring from UPS Room DB to Individual Work Stations With required all Connections and Suitable PVC Conduites. 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings	Rmt	250		
	b) 2 runs of 6 Sq.mm PVC wires with 1 run of 4 Sq.mm PVC insulated Copper earth wire in PVC in conduit. For A/C Sockets	Rmt	100		
	c) 2runs of 4.0 Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC wire for Name board from the 10 A DP MCB on the main board	LS	1		
<b>E - 3</b>	<b>Light / Fan Fixtures</b>				
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light fixtures should be covered with minimum 3 Years onsite replacement warranty).on gypsum ceiling no additional rate will be provided for frame or any hardware.				
	FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by Bank/Architect.	Nos	14		
	Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by Bank/Architect.	Nos	24		
	Supplying, fixing, testing and commissioning of 1X18/40 watts T5 led light fixture Wall/ Ceiling mounted (Philips ,havells)	Nos	12		
<b>E - 4</b>	<b>Ceiling Fans</b>				
	Supply & Fixing of 1200 mm sweep Crompton Make High Speed Ceiling fan with standard down rod, all accessories Electrical connections. Including fixing materials required.	Nos	4		
<b>E -5</b>	<b>Wall Mounted Fans</b>				
	Supply & Fixing of 400 mm sweep Wall mounted fan with 3 pin Plug on the lead wire of each fan all accessories Electrical connections. Including fixing materials required.	Nos	6		
<b>E - 6</b>	<b>Exhaust Fans</b>				
	Supply,fixing and commisoning of Fresh air exhaust fan of light duty 300mm size (9"), Metallic body plastic blades, wire mesh, etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for eraction.Make:Crompton/Havells/bajaj.	Nos	3		
	Supply,fixing and commisoning of Fresh air exhaust fan of Heavy duty size (12"), Metallic body plastic blades, wire mesh, etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for eraction.Make:Crompton/Havells/bajaj.	Nos	1		
<b>1</b>	<b>SUPPLY FABRICATION AND INSTALLATION OF MAIN PANEL BOARD</b>				

a	SITC of wall/floor mounting type ,dust and vermin proof main distribution board panel fabricated of 18swg ( powder coated ) comprising of busbar ( each of RYB + N) copper 100 amp each , 125A FP MCCB 3P Adjustable 25KA - 1No as incomer, Digital Panel meter - 3phase VAF + PF Meter (L&T/Legrand). Onload Generator Change Over Switch should be available in the panel with connection only for lighting and UPS control and R,Y,B Phase indicating Lamps. (Provide labeling in panel) including DANGER sign and necessary precautions, Earth bus bar 25x 5 mm GI strip-2Nos (At the bottom) & Outgoing consisting of : <b>LIGHTING &amp; RAW POWER CONTROL</b> - 1 Nos of 4p 40A RCCB for lighting, 1Nos of 40A 4P MCB, and 14 nos of 10A SP MCB for outgoing lighting distribution (SB-8), Raw power control (3) and 2 nos of 20A DP MCB for Outgoing inverter and GSB control. Future Provision to be provided for 3 SP MCBs with dummy plates. <b>ACs Distribution control:</b> 1no of 4P 63A RCCB for AC, 1 nos of 63A 4P McB, 10KA adjustable ,4 Nos of 20A DP MCB for outgoing ACs distribution control.Future provision to be provided for 2 DP MCBs with dummy Plates.1 Nos of 40A 4P MCB for UPS Control.	Nos	1		
b	SITC OF 100A Kit kts fuse unit 3 nos in wooden patra complete with 100Amp.Neutral link complete in all respect as required.	Nos	1		
c	Supply, installation, testing and commissioning of 8way SPN MCB DB (Double door) with 32A DP MCB as incomer and 6nos. 6A/10A/16A SPMCBs as outgoing.(UPS DB) LEGRAND / HAVELS for branch and atm	Nos.	1		
d	Supply and fixing of 32 A, DP MCB-1No. with encloser for UPS Incoming.	Nos	1		
E - 7	<b>Raw power Wiring and Sockets:</b> Supply and wiring of Raw Power Points from Main DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAupply and fixing of 1 <b>Nos 6A sockets</b> with 1 <b>Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets for branch and atm	Nos	13		
E -8	Supply and fixing of 1no 16A 3pin 'socketswith 16A switch of modular type with 'front plate and anodised GI box complete 'as required'.(Raw Power )	Nos	6		
E - 9	<b>UPS Wiring and Switch/Sockets:</b> Supply and wiring of UPS Points from UPS Room DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAupply and fixing of 3 <b>Nos 6A sockets</b> with 3 <b>Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets. (UPS -1 conection box table / counter no.1,3,5 & 7 and UPS -2 table no. 2,4,6 & 8 etc, and network rack & manager 2 UPS points from UPS-1 & UPS-2. for branch and atm	Nos	12		
E -10	Supply installation testing and commissioning of AC Units With 2x4Sqmm+2.5Sqmm Copper Fluxible Wire From Main DB to AC Units including Legrand Make 20A Metal Clad Socket with 25/32A SP MCB set( Like Metal Clad Socket+Wiring From Db to AC Box to Stabilizer to AC Units)	No	4		
E - 11	Supply and erecting of approved make telephone RJ 11Jack for telephone with 2 pair .5mm Thick Telephone cable including pvc conduite with required all materials (RJ-11 Jack+ 2 pair Cable)	Nos	2		
E - 12	Supply and Laying of 10 pair .5mm Thick Telephone cable including pvc conduite with required all materials From Outside to Rack locations	Nos	2		
E - 13	Supply, fixing And Installation of 30pair Crone Connector box of Metal body with lock and key system 30 Pair Crone connectors all connections is required As per the site condition.	Nos	1		
E -14	<b>Earthing</b>				
	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copperbonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod- toConductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill and photographs at the time of laying).	No	1		
	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to- Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill and photographs at the time of laying).	No	1		
	c) Supply and laying of following size strips including including all necessary inter connections with earth station and equipments.				
	i) 8 SWG Copper wire	Rmt	145		
N	<b>TOTAL AMOUNT FOR BRANCH ELECTRICAL WORKS Rs :</b>				
	<b>COMPUTER NETWORKING FOR BRANCH</b>				
N-1	Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter.	Mts	300		

	Providing and fixing of RJ 45 outlet, Dual faceplate and mounting box complete of modular type to be of Dual socket plate which counts as one point in Dual plate, This work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	16		
N-2	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).	Nos.	1		
N-3	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1		
N-4	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	16		
N-5	Supplying and fixing Patch Cord-1 Meter-	Nos.	16		
	<b>TOTAL AMOUNT FOR BRANCH NETWORKING WORKS Rs :</b>				
	<b>TOTAL AMOUNT OF ELECTRICAL AND NETWORKING FOR BRANCH</b>				
<b>ATM ESTIMATE FOR ELECTRICAL AND LAN WORKS FOR CANARA BANK AT CHENNURU BRANCH</b>					
<b>1</b>	<b>Light Points:</b>	Nos.	6		
	Supply and Wiring for Primary Light point with 2runs of 650 grade 1.5sq.mm FRLS PVC insulated multi stand copper conductor wires in 20mm dia, 2.2 thickness PVC conduit concealed in wall/column/ceiling/floor including supply and fixing of 1No. 6Amps single pole modular type switch in anodised GI box and earthing with 1.5sq.mm multi stand FRLS PVC insulated wire runs continuously along the conduit including supply of all accessories as required. (Make : Switches : Legrand(Myline), Anchor Roma, Wire : Havells ,Polycab)				
<b>2</b>	Supply and fixing for 16Amps/6Amps 5 pin Universal Modular type socket outlet including supply and fixing of 1 No. 16/6Amps 5 pin modular type combined switch socket fixed in anodised GI /PVC box of suitable size.Rate includes with metal box ,switches socket and two runs of 2.5 and one run of 1.5 sqm approved make wire form the main Db where ever as per the site conditions(Make : Switches : Legrand(Myline), Anchor Roma, Wire: poly cabb , havells, Finolex.	Nos.	4		
<b>3</b>	<b>Run of Mains:</b>				
	Supply and wiring for with the following size :				
	650 V grade PVC insulated multi stand copper conductor wires confirming to IS 694 (with latest amendments) in suitable size: 1.5mm thick PVC conduit concealed in wall/ceiling/floor and insulated multi stand copper earth wires as specified run continuously along the conduit including supply of all fixing materials and accessories interconnections complete as required. (Makes :Wire : Havells ,Polycab)				
a	2 runs of 2.5 sq.mm wires with 1 runs of 1.5sq.mm copper wires in suitable size PVC conduit, for UPS & RAW power points.	Mtr	30		
b	2 runs of 4 sq.mm wires with 1 run of 2.5 sq.mm copper wire in suitable size PVC conduit.	mtr	30		
<b>4</b>	<b>P.V.C Conduit:</b>				
	Supply and laying of following size 2.2 thickness PVC conduit concealed in wall/ceiling/floor/column including supply and drawing of 12SWG GI wire as fish wire for laying of UPS/raw power cables at the lated stage of supply of all fixing materials complete as required.(Make :Sudhakar,Precision)				
a	19mm	mtr	20		
b	25mm	mtr	20		
<b>5</b>	<b>DISTRIBUTION BOARDS:</b>				
a	Supply, installation, testing and commissioning of 25A SP,MCB with Metal Plug and socket in Enclosure.for A/C (Make : Legrand)	Nos.	2		
b	Supply, installation, testing and commissioning of 8 way SPN MCB DB (Double door) with 32Amps 1P MCB as incomer and 3 no.s 20ASPMCBs as out Going. (Make : Legrand) for Ups input.	Nos.	1		
<b>6</b>	<b>FIXING:</b>				
a	2X2 36W LED LIGHT FITTING				
	Supply	Nos.	1		
b	2X18W LED DOWN LIGHT FITTING				
	Supply	Nos.	4		
c	T5 LED LIGHT FITTING				
	Supply	Nos.	2		
<b>7</b>	Supply and Wiring with the following size 650V grade FR PVC insulated Copper conductor wires in suitable PVC conduit including end terminations with suitable lugs.				
a	4 runs of 4 Sq.mm PVC wires with 2 runs of 4Sq.mm PVC insulated Copper earth wire in PVC conduit, for ATM input.	Mtr	30		
<b>8</b>	Supply installation testing and commissioning of AC Units With 2x4Sqmm+2.5Sqmm Copper Flexible Wire From Main DB to AC Units including Legrand Make 20A Metal Clad Socket with 25/32A SP MCB set( Like Metal Clad Socket+Wiring From Db to AC Box to Stabilizer to AC Units)	Nos.	2		
<b>9</b>	<b>VOICE AND DATA</b>				
a	Supplying and erecting of approved make LAN socket including cost and conveyance of all materials and labour charges. (M.K(Wrapround),CPL,MDS,Northwest,SSK,Crabtree)	Nos.	0		

	b	Supplying and erecting of approved make TELEPHONE socket including cost and conveyance of all materials and labour charges. (M.K(Wrapround),CPL,MDS,Northwest,SSK,Crabtree)	Nos.	2		
<b>10</b>		<b>LAN Cable</b>				
	a	Supply and Laying of 4Pair CAT-6E LAN Cable with suitable PVC Conduite and Junction boxes with etc.	Nos.	2		
	b	Supply, fixing and Laying of Acces control Cable and Data cable with suitable PVC Conduite and Junction boxes with etc.	Nos.	2		
		<b>Total Amount for ATM Electrical works (B)</b>				
	**	<b>GRAND TOTAL FOR ELECTRICAL WORK BRANCH AND ATM(A+B)</b>	=			
		<b>DISCOUNT</b>				
		<b>GRAND TOTAL AFTER DISCOUNT</b>				
<b>Amount in Rupees:- Rs.</b>						
		<b>Sign &amp; Seal of the Contractor : -</b>				