

**PROJECT - ESTIMATE FOR ELECTRICAL WORKS.**

**BANK - INDIAN BANK**

**BRANCH & ATM CHAUBEPUR**

<b>S.N</b>	<b>PARTICULARS</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	POINTS & WIRING				
1.1	Supply & Installation of concealed Point Wiring for light, fan & exhaust fan points controlled thru modular switches complete with boxes & cover plate - The point wiring shall be carried with 3 x 1.5sq.mm FRLSH (Fire Resistant low smoke Halogen) stranded Cu. Wires in 20mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The job shall be complete & to the entire satisfaction of the Bank. Each Switch board should be provided with suitable capacity fuses/ fuse indicator. <b>All switch &amp; sokets shall be modular type complete with cover plate &amp; GI/ MS box.</b> The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval & finally finishing the surface & matching the same with the existing surface.The rate should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank.				
a	Light points + AFF points including the cost of 6A switch	Point	50		
b	Ceiling fan point with step type electronic regulator controlled by one 6 amp. Modular switch. The switch should be at switchboard level.	Point	4		
c	Similar as above for wall mounting fan including box with 6A Control Switch along with clamp and ceiling rose	Point	12		
d	6A switch & Socket on SDb	Point	8		
e	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1		
1.2	<b>RAW POWER POINT</b>				
	Single Power Points - Supply & Installation of Circuit Wiring (Single 6/16Amps power Points) : Supply & laying of circuit wiring for 6/16 Amp. Switch points with 2 x2.5 + 1x 1.5sq.mm FRLSH (Fire Resistant low smoke Halogen) Cu stranded wires laid in 20mm conduit pipe concealed in wall/ floor/ panelling/ partitions as per requirement. The job shall be complete & to the entire satisfaction of the Bank.t. The earth wire of green color only. All switch & sokets shall be modular type complete with cover plate & GI/ MS box. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval & finally finishing the surface & matching the same with the existing surface.The rate should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank.	Point	9		
1.3	AC POINTS				
1.3	AIR CONDITION POINTS -Circuit wiring with 2x4.0sq.mm + 1x 1.5sq.mm FRLS Cu stranded wires (Finolex/ Anchor/ Skytone) to be laid in 19mm PVC pipe heavy duty laid & concealed in wall/ floor/ panelling/ partitions as per requirement. The job includes Supply & Fixing of Havells MCB protected power unit DBOXx type c/w 32A DP MCB including proper connections or any equivalent approved by Architect. The job shall be complete & to the entire satisfaction of the Bank (FOR CASSATE / SPLIT AC 2.0 TR UNITS)	Point	6		
1.4	<b>STRONG ROOM MCB</b>				
	Strong room controlling DP MCB at entry gate outside of strong room - Circuit wiring with 2x2.5sq.mm + 1x 1.0sq.mm stranded Cu. conductor (Finolex/Anchor/Havells) to be laid in 19mm M S conduit pipe heavy duty 16swg laid & concealed in wall/ floor/ paneling/ partitions or above false ceiling as per requirement. The electric wiring should be arranged separately for the Strong Room and it is to be connected to a plug outside. The job also includes supply & fixing of 32A DP MCB in 2way box including connections with lugs. The rate should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank.	Job	1		

<b>2</b>	<b>UPS (BRANCH + ATM)</b>				
2.1	Sub Main Wiring/ Cabling - : SITC of sub main wiring 4nos. 10 sq.mm Stranded copper wires for UPS Input from main incoming panel to incoming Db of UPS power input system etc. in 25mm dia PVC Heavy duty conduit complete to the satisfaction of the bank. (BRANCH + ATM)	JOB	1		
2.2	UPS Power Input System: SITC of 4way TPN Double door Db IP 42 horizontal Complete with 1no. Incoming 32A. TP MCB and 3 x 32A 2P MCB's to regulate supply for UPS complete in all respect as required and to the satisfaction of the bank.	Set	2		
2.3	Wiring for UPS Input & UPS Output (For both Critical 2Kva & Non- Critical 3Kva UPS) with 2x4.0sq.mm + 1x 1.5sq.mm stranded Cu. conductor (Finolex /Anchor /Skytone) to be laid in 19mm PVC pipe heavy duty/ Flexible pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The rate should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank. (BRANCH + E-LOBBY)	JOB	2		
2.4	S/F of 32A 2P MCB in 2way metallic box including proper connectionbs thru lugs. Both the Db's shall be inter looped- Qty included in item 3. (2nos. For ATM and 2nos. For Branch)	Each	4		
2.5	UPS Output Power Distribution System: SITC of 12 way SPN Db Double door IP -43 Siemens make with 32A DP 10kA MCB and 09 nos. SP 10kA MCB complete in all respect and as required & to the satisfaction of the bank. Siemens/ L&T/ MDS/ Schnider	Set	2		
2.6	Input Wiring for UPS Db's with 2x4.0sq.mm + 1x 1.5sq.mm stranded Cu. conductor to be laid in 19mm PVC pipe heavy duty/ Flexible pipe laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The rate should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank. (BRANCH + ATM)	JOB	1		
2.7	Supply & fixing of 3nos. 6A switches 1 module & 3nos. sockets 2modules Modular type complete with GI Box, Cover plate etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor/ panelling/ partitions (Without damaging the building/wall) & finally finishing the surface & matching the same with the existing surface.The job shall be complete & to the entire satisfaction of the Bank. & include Wiring for computer terminal points with 3 x 1.5sq.mm Fire Resistant Low Smoke Halogen stranded Cu.wires to be laid in 20mm OD PVC conduit or 1" vertical drops heavy duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. -From UPS - SPN Db - circuits for computer stations. <b>(Please Note that 2 Nos. 6 amps. 5 pin modular type sockets and 1 no 16A 5 pin modular type socket, one 6A modular switch &amp; one 16A modular switch with all accessories, inner/ outer plates, metal box etc. is to be provided near the Server rack &amp; CCTV Rack)</b>	Per Node	10		
<b>3</b>	<b>MAIN INCOMING PANEL &amp; DISTRIBUTION</b>				
3.1	SITC of 200A Kit kats fuse unit 3nos in wooden patra complete with 200Amp. Neutral link complete in all respect as required.	Set	1		
3.2	Main Incoming Panel				
	Supply, Installation, Testing & Commissioning of main distribution board panel fabricated of 18swg (powder coated) comprising of	Nos.	1		
	Indicator lamps 3 nos.				
	Voltmeter & ammeter(one each)				
	Rotary selector switches 2 nos for voltmeter & ammeter				
	Busbar (each of RYB +N) copper 100 amp each				
	125 Amp MCCB(Siemens/ L&T/ ABB/ Schnider) incoming 3P adjustable 25kA				
	Changeover TPN 100 amp for DG set (Havells/ ABB/ Sochomac)				
	Outgoing 63A 3P MCB's - 6 nos.				
	Outgoing 32Amp 2P MCB's - 6 nos.				
	Earth bus bar 25x5mm GI strip - 2nos. At the bottom.				
4	Supply Installation testing & commissioning of <b>XLPE insulated</b> Armoured Aluminium Conductor Cable between main panel & DB's & generator of required thickness of approved make based on the load assessment & confirmation of the same with architect. This rates include cost of lugs at both the ends (Branch +ATM )				

4.1	3.5C x50 sq.mm cable from Meter to Kit kat to the main panel (Branch +ATM ) (Approx - 30 mtr )	JOB	1		
4.2	4C x 25 sq.mm cable from Main Panel TO LHS DB (Approx - 20 mtr)	JOB	1		
4.3	4C x 25 sq.mm cable from Main Panel to RHS DB (Approx - 20 mtr)	JOB	1		
4.4	4C x 25 sq.mm cable from Main Panel to Generator ( Approx - 20 mtr)	JOB	1		
5	Supply, installtion, testing & commissioning of VTPN Db double door with MCB as incomer IP 42 complete in all respects for AC, PP and L & F as under - Siemens/ L & T / HAVELLS / ABB	Each	1		
5.1	RHS 6way VTPN db - Loaction RHS wall opposite Cash cabins (From entrance to Rear record room & Toilet area) - Siemens 8GB0406VRC or equivalent				
	Incomer - 63A 3P MCB 10kA adjustable neutral to be directly connected to neutral bus				
	3no. 32A 1P-MCBs 10 KA - AC's - 2nos. RHS & 1rear				
	3no. 16A 1P-MCBs 10 KA - for single power points - 2 cash & 1 May I help You & 2nos. D/W				
	4nos. 10A 1P-MCBs 10 KA for L&F				
	4os. 6A 1P-MCBs 10 KA for L&F				
	Blanking Plates - 2no.				
	All connections to be terminated thru lugs				
5.2	LHS 6way VTPN db - Loaction LHS wall behidn advance (From LHS LV Cash to Mgr Rm)- Siemens 8GB0406VRC or equivalent	Each	2		
	Incomer - 63A 3P MCB 10kA adjustable neutral to be directly connected to neutral bus				
	4o. 32A 1P-MCBs 10 KA - AC's - 3nos. LHS & 1 Mgr Rm				
	4no. 16A 1P-MCBs 10 KA - for single power points - ( LV cash, 2 CRE, 1Advance, 2 MR & 2 Router)				
	2nos. 10A 1P-MCBs 10 KA for L&F				
	2os. 6A 1P-MCBs 10 KA for L&F				
	Blanking Plates - 2no.				
	All connections to be terminated thru lugs				
6	Glow sign Board - Circuit wiring with 2x2.5sq.mm + 1x 1.5sq.mm stranded Cu. conductor (Finolex/Anchor/Skytone) to be laid in 20 mm PVC pipe heavy duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. The rates should include the cost of all materials, labour, T&P, taxes & levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete & to the entire satisfaction of the Bank.	JOB	1		
<b>7</b>	<b>EARTHING JOB</b>				
7.1	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of Copper bonded rod / Galvanized JK Chemrode 10 feet length, 25 mm dia. (Minimum copper bonding shall be 0.25mm) filled with highly conducting metallic compounds with permanent sealing at both the ends with lead terminal including bore well, chamber with cover and all required civil allied works, earth pit to be filled with 2 bags of 25 kg pack of Back Fill Compound (Earth Enhancement Material). The rate should be inclusive of 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). The job also includes wiring with 1 x 10 sq.mm PVC insulated copper conductor wire of 650 / 1100 Volt grade (Finolex, Polycab Make) upto 10 m as earth wire with concealed / exposed GI pipe including making all the connections with guaranteed E/N voltage of less than 3 volts and resistance less than 1 ohms.	Nos	2		
7.2	Supplying, laying and fixing of 10 sq mm copper pvc insulated wire covered with GI Pipes from earthing plate to main panel, if required beyond 10m	Metre	20		

8	<b>F - FIXTURES &amp; FITTINGS</b>				
8.1	Supplying and fixing PHILIPS / CROMPTON / HAVELLS make 36W LED FLAT PANEL after disconnection of existing fitting 2'x2' size in grid type false ceiling, 600x600 suitable for recess mounting, CRCA sheet, aesthetic looking, complete.	Each	12		
8.2	Supplying and fixing Philips make or eqv <b>15 W LED round type downlighter</b> (Philips / Crompton / Havells / Wipro / Jaguar)	Each	26		
8.3	Supply installation testing and commissioning of 1*20watt Batten type tubular LED light fitting with LEDs, driver, diffuser, and housing complete in all respects in UPS room and record /wc/bath room /suitable place with complete in all respect with required color on need basis.	Each	12		
8.4	S/F of angle holder for bulbs including cost of 12W CFL lamp for Toilets	Each	4		
8.5	Supply & installation of wall bracket fan <b>450 mm Metal body</b> (Heavy duty/ high speed) Make Crompton Greaves / Havells/Orient (to be supplied after consultation with architect/Electrical Engineer as per approved drawing)	Each	4		
8.6	Supply & fixing of the 1200 mm 48") Sweep Ceiling fan (Orient / Crompton Greaves/ Havells) with downward rod(below false ceiling), canopy etc. including of PVC flexible copper wire.(white colour)( High speed) (Warranty Certificate is necessary)with downward rod, circular boxes, ball sockets, ceiling plates,suitable arm bracket etc. including connection with wire)White colour (WITH REGULATOR)	Each	12		
8.7	Supply & Fixing of fresh air fan 12" - Crompton Greaves / Usha/ POLAR / Bajaj	Each	3		
8.8	S/F Heavy Duty Exhaust Fan 450mm with all the accessories complete as per Bank's Instructions in UPS room	Each	3		
8.9	Supplying and fixing High Luminous LED strip 3000 K <b>24 watt</b> 5 mtr length with driver (Philips or Havells or Crompton )	SET	0		
9	<b>H - TELEPHONE</b>				
9.1	P/f Krone or equivalent box in the server room & out side of the Branch with a ten pair connecting strip for telephone with lock & key	Each	1		
9.2	10 Pair Cable with Connection from main Panel to entrance of the Branch	JOB	1		
9.3	Supply & fixing on wall/ furniture/ partition recessed type non modular telephone socket outlet (RJ-11) with mounting box & front plate complete with chase cutting, mending good etc. as required complete with Supply & laying of 2pair 0.61mm dia. PVC insulated telephone cables through 19mm dia rigid PVC conduit (including laying of GI draw wire complete with junction box, circular box, elbows, bends & other accessories as required by chase cutting on floor, wall, through partition or over false ceiling.The data cabling pipe should be laid at a minimum distance of 3ft from pipes laid down for power distribution) including interconnection with connectors as required complete in all respects.	Each	3		
10	<b>I - DATA CABLING</b>				
10.1	Supply & Fixing of XL RJ 45 toolless information outlet with Duplex face plate with dual connectors Grey colour cat 6e including cost of supplying & laying CAT 6e (as directed by Architect from Server to Switch, Switch to computer I/O data socket as required complete in all respects) in 25mm dia rigid PVC conduit (including laying of GI draw wire complete with junction box, circular box, elbows, bends & other accessories as required by chase cutting on floor, wall, through partition or over false ceiling.The data cabling pipe should be laid at a minimum distance of 3ft from pipes laid down for power distribution) including interconnection with connectors as required complete in all respects.	Each	10		
10.2	Supply & fixing of 7ft Grey colour Patch chord Giga speed Systimax/ D link make	Each	10		
10.3	Supply & fixing of 3ft Grey colour Patch chord Giga speed Systimax/ D link make	Each	10		
10.4	S/F of 24 Port Jack Panel fully loaded systimex make	Each	1		
10.5	S/F of 9U wall mounted rack c/w fan etc as required	Each	1		
10.6	S/F of Cable Manager as required	Each	1		
	<b>ELECTRICAL WIRING WORKS</b>				
	<b>ELECTRICAL FIXTURES</b>				

	<b>GRAND TOTAL AMOUNT (BRANCH + ATM)</b>				