

**BILL OF QUANTITY FOR ELECTRICAL WORKS  
FOR BANK OF INDIA, GAURI BAZAAR BRANCH**

S.NO.	PARTICULARS	Unit	Qty.	Rate	Amount
1	A - Light, Fan, 16amp/6 amp points Light, Fan & 6 A switch points: S/F of light, fan & exhaust fan points controlled thru Anchor make Piano switch. It shall have 2nos. 0.75 sq.mm stranded Cu. Wire in 19mm PVC conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. 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 450mm 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	39		
2	6 A switch points: S/F of 6A switch points with an additional indicator and 6Amp. Anchor make Piano Type switch & socket. It shall have 2nos. 0.75 sq.mm stranded Cu. Wire 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.	Point	12		

- |   |   |   |     |
|---|---|---|-----|
| 3 | <p>Circuit Wiring ( Light, fan, 6Amps Switch points) : Supply &amp; laying of circuit wiring for light, Fan &amp; 6 Amp. Switch points with 2nos. 1.5sq.mm Cu wire &amp; 1no. 1.0sq.mm earth wire laid in 19mm conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.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 450mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, taxes &amp; levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank.</p>                                       | m | 125 |
| 4 | <p>Circuit Wiring (6/16Amps power Points) : S/F of circuit wiring for 6/16 Amp. Switch points with 2nos. 2.5sq.mm Cu wire &amp; 1no. 1.0sq.mm earth wire laid in 19mm conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.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 450mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, taxes &amp; levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. (5ckts - 2 cash cabins, 1 open counter, 1 rear cabin &amp; 1 rear area for WC)</p> | m | 98  |

5	<p>Circuit Wiring for 2Nos. 6/16Amps power Points: S/F of circuit wiring for 6/16 Amp. Switch points with 2nos. 4.0sq.mm Cu wire &amp; 1no. 1.5sq.mm earth wire laid in 19mm conduit pipe concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. 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 450mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface. The rate should include the cost of all materials, labour, T&amp;P, taxes &amp; levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc. The job shall be complete &amp; to the entire satisfaction of the Bank. 2nd PP to be inter looped with first PP (Total 4ckts - 2 for Manager cabin, 1 for counter LHS, 1 for officers rear)</p>	m	91
6	<p>6/16Amp. Switch Sockets : S/F of 6/16A Piano type switch socket Anchor make for power points. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) &amp; matching the same with the existing surface. The rate should include the cost of all materials, labour, T&amp;P, taxes &amp; levies, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc. The job shall be complete &amp; to the entire satisfaction of the Bank.</p>	Each	13
B - UPS			
1	<p>S/laying of 4 core 10 sq.mm PVC armoured cable from main Panel to 4way TPN Db in the UPS room to be laid in heavy duty PVC conduit/ pipe &amp; run on surface or concealed in wall/ floor/ false ceiling. (Finolex/Skytone/ Cable corpn.)</p>	m	18
2	<p>Supply &amp; fixing flush type single door 4way TPN distribution board for regulating UPS supply complete with 63A TP MCB as incomer &amp; 2nos. 32A SPN MCB's as outgoing (Assumed 2nos. UPS)</p>	Each	1

3	Supply & laying of incoming & outgoing wiring to & from UPS with 2x 4.0sq.mm + 1x 1.5sq.mm (earthing) stranded Cu. wire conductor (Finolex/Anchor/Skytone) to be laid in 20/25 mm flexible PVC pipe heavy duty to UPS incoming & from UPS outgoing to DP MCB in 8way SPN Db.	m	8
4	Supply & fixing of 16 way SPN Db - 1rwo 16 module - flush type Double door - Siemens	Each	1
5	Supply & fixing of 32A DP MCB in 16 way SPN Db (MDS/ Hagers/ Siemens/ ABB)	Each	1
6	S/F of SP-MCBs of 10 KA Rating - (MDS/ Hagers/ Siemens/ ABB) - 10 Amp.	Nos.	12
7	Supply & fixing of 4nos. 6A switches & sockets complete with computer point circuit wiring with 2x2.5sq.mm + 1x 1sq.mm stranded Cu. Single core Copper conductor (Finolex/Anchor/RPG) to be laid in PVC conduit 1" dia/ vertical drops heavy duty laid & concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.	Per Node	12

C - AIR CONDITIONING

1	Air Conditioning circuit wiring with 2x4.0sq.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 job includes supply & fixing of 4in one appliance protector prewired IP 20 flush mounted complete with factory fitted 20A DP MCB. (MDS/ Hagers/ Siemens/ ABB). 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.	lcn	2
---	--	-----	---

Existing 3nos. To be used

D - DISTRIBUTION MAINS

1	S/F of 3 nos. 100 Amps Kit kat set link type with heavy duty neutral link and making its connection from electronic meter c/w wooden board etc.	Set	1
---	---	-----	---

- 2 Supply, Installation, Testing & commissioning of Main L T panel fabricated from CRCA sheet 1.8mm dust proof, vermin proof as under - All switchgears to be of Siemens/ ABB/ L& T. Set 1  
There should not any supply for AC Db as & when DG set changeover is operated.

Incomer - 100Amp. FP MCCB 25Ka with adjustable thermal & Magnetic trip unit  
Changeover FP 100 Amp- ABB  
OUTGOINGS -  
63 Amp TP MCCB - 1no. for AC adjustable - 25kA  
63 Amp TP MCB - 1no. for power points -10kA

32 Amp TP MCB - 1no. for UPS -10kA  
63 A TP MCB - 1nos. for L&F Db -10kA  
63 Amp TP MCB - 1nos. Spare -10kA  
L&F distribution  
3nos. 240V 32A SP MCB  
6nos. 240V 10A SP MCB  
6nos. 240V 6A SP MCB  
32Amp -DP MCB for Strong Room, Sign Board & Fire alarm  
Bus Bar - 100 amp c/w Ammeter & its selector switch, voltmeter & its selector switch, Indication lamps etc.  
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.

3	Main cabling work from fuse Kit kats to Panel: Supply, laying, testing & commissioning, effecting proper connections with lugs, of 3.5c x 35sq. mm XLPE insulated Alumium conductor armoured cables from 100A link type fuse kit kats to the incoming of the main Panel. The armouring should be connected at both ends properly with Panel body and TPN Db body. The cable should be laid on surface with proper clamps or laid & concealed in wall/ floor/ paneling/ false ceiling complete in all respect. The work also includes cutting chases for conduits in the wall/ floor (Without damaging the building) along with clamping the cable at every 450mm 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 etc.The job shall be complete & to the entire satisfaction of the Bank/Architect.	m	6
4	S/ laying of XLPE insulated armoured Al. Conductor cable including cost of lugs, cable glands etc. 4c x 16sq.mm for 6way TPN Db for AC Db 4c x 16sq.mm for 6way TPN Db for PP Db	m m	12 12
5	Supply, installtion, testing & commissioning of flush mounted Doubel door IP 42 TPN distribution boards w/o MCB's complete in all respects - MDS/ Hagers/ Siemens 4 way TPN for AC Db 4way TPN for PP Db	Each Each	1 1
6	S/F of 63 Amp TP - MCB in AC & Power Point Db of 10 KA Rating - (MDS/Hagers) , neutral to be directly connected to neutral bus	Each	2
7	S/F of SP-MCBs of 10 KA Rating - (MDS/Hagers) - 6 to 32 Amp.	Each	14
E-DG SET SUPPLY			
1	S/laying of 2x10sq.mm stranded Cu. Wires from proposed DG set to Changeover switch including its connections at both ends to be laid in rigid PVC /flexible conduit	m	10

G - SUPPLY & FIXING ITEMS

1	S/F of 2x36w CFL recess mounted decorative direct- indirect lighting luminaire suitable for 2x36W CFL Mirror Optics (Colour to be decided by Architect between Fiery Amber/ Aqua Green & Pearl White) c/w cost of 2x36w CFL lamps - Philips make FBS 450/236 P5 HPF (AG/FA/PW)		
	a) Receiving & Fixing	Each	13
	b) Supply	Each	13
2	S/F of 2x36watts Fluorescent Tube light fitting c/w cost of 2x36w fluorescent tube light - Philips -TBS 518/236 HPF		
	a) Receiving & Fixing	Each	3
	b) Supply	Each	3
3	S/F of 1x36watts Fluorescent Tube light fitting c/w cost of 1x36w fluorescent tube light - Copper star Philips -		
	a) Receiving & Fixing	Each	7
	b) Supply	Each	7
4	S/F of angle holder for bulbs including cost of 11w CFL lamp	Each	1
5	S/F of wall mounted fan 400mm sweep -Bajaj/ Crompton/ Alsthom		
	a) Receiving & Fixing	Each	12
	b) Supply	Each	12
6	One no. existing ceiling fan to be dismantled & reused	Job	1
7	Supply & Fixing of fresh air fan 12" - Crompton Greaves/ Usha/ Khaitan/ Bajaj		
	a) Receiving & Fixing	Each	2
	b) Supply	Each	2
	H - Telephone system		
1	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 1pair 0.5mm dia. PVC insulated telephone cables through rigid PVC conduit of suitable diameter as directed by the consultant from telephone junction box to telephone socket outlet including interconnection mending good etc. as required complete in all respects.	Each	3

---

**Total Cost of works**

DATA CABLING

Supplying & laying of 25mm dia heavy duty rigid PVC conduit (BIS marked) complete with junction box, circular box, elbows, bends & other accessories as required by chase cutting on wall, through partition or over false ceiling. The work includes making good all damages to original finish, painting etc. as required. The PVC conduit for Data & Voice should be run separately.	m	85
Supply & laying of CAT - 6 cables Giga speed Systimax make through pre-laid rigid PVC conduit as directed by the consultant from Server to Switch, Switch to computer data socket including interconnection mending good etc. as required complete in all respects.	m	166
Supply & Fixing of XL RJ 45 toolless information outlet Ivory cat 6 Giga speed Systimax/ D link make including interconnection mending good etc. as required complete in all respects.	Each	12
Supply & fixing of 7ft Grey colour Patch chord Giga speed Systimax/ D link make	Each	12
Supply & fixing of 3ft Grey colour Patch chord Giga speed Systimax/ D link make	Each	12

### **Total for Data/ LAN Cabling**

**Note:**

**Contractor will have to dismatle & deposit all existing old wiring, fixtures & fittings with the person authorised by the bank**

### **G.TOTAL**

**OPTIONAL ITEMS**

Earthings - to be checked by contractor and use existing earthings.

- 1 S/burying of 600 x 600 x 3mm Cu. Plate Vertically for earthing, with its top at least 3m below GL complete with 20mm GI pipe & funnel for watering & one earthing lead of 25x3 mm Copper strip (Assumed length of 10m - beyond 10m to be paid extra) in 32mm dia. G.I. Pipe upto switch board/Main Db, 300mm square CI frame with hinged cover, masonry housing, alternate layers of charcoal/coke & salt at least 150mm thick all around complete in all respects with guaranteed E/N voltage of less than 5 volts. The 25x3mm Copper strip shall be terminated on a separate 6way earthlink for UPS. The connections for Panel earthing & earth bus in the panel should be taken from this earthlink. (1for power system &1 for UPS). The distance between two earthing pits to be 10ft or more.

Job 2

- 2 S/F of ceiling fan 1200mm sweep -Bajaj/ Crompton/ Alsthom  
 a) Receiving & Fixing  
 b) Supply

Each 1  
 Each 1

**Total for Optional Items**

Details of AC, PP, CP & Data Points etc.	AC (S)	PP	CP	TP	DP
Manager Cabin	1	4	4	2	4
Waiting Longue Ckt -2	1				
Counter Area + area LHS of Cash cabins	1	2	2	1	2
Area LHS of Cash cabins	1	2	2		2
Cash cabin - 1		1	1		1
Officer		1	1		1
Cash cabin -2		1	1		1
Rear cash cabin	1	1	1		1
Rear area + Toilet area		1			
<b>Total</b>	<b>5</b>	<b>13</b>	<b>12</b>	<b>3</b>	<b>12</b>