

**BILL OF QUANTITY FOR ELECTRICAL WORKS FOR INDIAN BANK CHAKA BRANCH
PRAYAGRAJ**

S.NO.	PARTICULAR OF ITEM	Quantity	UNIT	RATE	PER	Amount
				RS. P.		RS.P
1	1 Supplying and fixing of 100 Amp TPN Main Switch Set on M.S Angel frame on wall including cable connection etc complete in all respect	1	NOS		EACH	
2	<p>MAIN PANEL BOX Supply, installation, vermin-proof,, cubicle type, 20 Set gauge thick sheet enclosure main incoming (MIP) panel, suitable for use on 415 V, 3-Ph, 4 wire, 50 Hz AC system, incoming and outgoing cable compartment. Each unit shall be accommodated in a separate compartment having gasketed hinged door with locking arrangement. The cubicle should be painted with 2 (two) coats of gray synthetic enamel paint over a coat of zinc chromate primer. The complete fabrication, construction shall be done as per the detailed specification and conforming to the relevant I S code. Name plate of Panels Danger Board, incoming and outgoing feeders with Ampere rating of MCCB / MCB are to be fixed upon front door above or below the respective switches. Approval of drawings is required from the Bank. The panel should be enough to accommodate items detailed below.</p> <p>INCOMING : 415V 100A 4 pole MCCB having short circuit breaking capacity of 35 K A (min) with O/L, E/F & S/C protection Device. (a) Digital Volt Voltmeter with Selector Switch -1no. (b) Digital Ammeter with Selector Switch (c) Phase indicating lamps-1no. (d) PVC sleeved TPN 150 Amp Tinned 4 strip Copper Bus bar-1no. (e) 100/5A CT(Current transformers) -1no.</p> <p>OUTGOING a) 63 A, 4 pole TPN MCCB with 25KA breaking capacity on load. – 1 no. b) 63A, DP MCB-2no. c) 240V 32A SP MCB -12 no. d) 100 AMP 4 P CO - 1NO</p>	0	NOS		EACH	
3	Supplying and fixing concealed type factory fabricated 1 phase 240 volt SPN MCB Distribution board					
	(Double Door) with 40 Amp DP RCCB of 300 mA as Incomer complete with interconnection with MCB, copper bus & neutral & earth link.					
	a)8 Way with 6 nos SP MCB (5-10 Amp)(Light)	1	NOS		EACH	
b)12 Way with 10 nos SP MCB (5-10 Amp (UPS)	2	NOS		EACH		
4	Supplying and fixing concealed type factory fabricated 3 phase 400 volt TPN MCB Distribution board 4 way per phase with 63 Amp TPN RCCB of 300 mA sensivity as incomer and 12 nos (6-25) Amp MCB SP as out going complete with interconnection with copper bus & neutral & earth link. (A.C)	3	NOS		EACH	
5	Supplying and connection by 4 x 16 sqmm + 1x6 sqmm FRLSH PVC insulated copper wire between Main Switch and Panel by making proper end socketing including supplying 35mm pvc pipe.	8	RMT		RMT	
6	Supplying and connection by 4 x 10 sqmm + 1x6 sqmm FRLSH PVC insulated copper wire between TPN DB and Panel by making proper end socketing including supplying 25mm pvc pipe.	22	RMT		RMT	
7	Supplying and drawing circuit line by 2 x 6 sqmm + 1 x 2.5 sqmm FRLSH PVC insulated copper wire by 19 mm pvc pipe fully concealed and mending good the damages (For UPS Incoming & UPS to DB)	38	RMT		RMT	

8	Supplying and drawing circuit line by 2 x 4 sqmm + 1 x 2.5 sqmm FRLSH PVC insulated copper wire by 19 mm pvc pipe fully concealed and mending good all the damages)(for AC)	0	RMT		RMT	
9	9A)Supplying and drawing 16x4 armoured AL cable	34	RMT		RMT	
	9B)Supplying and drawing 10x4 armoured AL cable	15	RMT		RMT	
10	Making point wiring for fan & light by 2 x 1.5Sqmm + 1 x 1 sqmm FRLSH PVC insulated single core copper wire by 19 mm pvc in concealed manner including modular type switch & socket 6Amp, M.S.box, Top plate and cover plate.					
	a) Single point controlled by single switch.	60	NOS		EACH	
	b) Double point controlled by single switch.	0	NOS		EACH	
	c) Plug point 6Amp	10	NOS		EACH	
	d) Call bell point	1	NOS		EACH	
11	Supplying and fixing 2 Nos 3 pin 6 Amp Socket and 1 No 15Amp controlling switch of modular type and connection including M.S box, cover plate and top plate in one board.	9	NOS		EACH	
12	Supplying and fixing 3 Nos 3 pin 6 Amp Socket Nos controlling switch of modular type including M.S box, cover plate and top plate in one board.	12	NOS		EACH	
13	Supplying and fixing 1 No 3 pin 6 Amp Socket with controlling switch of modular type including M.S.Box, cover plate and top plate for raw supply.	0	NOS		EACH	
14	Supplying and fixing 1 No 6 pin 6/16 Amp Socket with controlling switch of modular type including M.S.Box, cover plate and top plate.	8	NOS		EACH	
15	Supplying and fixing 2 Nos 40Amp DP MCB in Each suitable enclosure for UPS Incoming & outgoing.	2	NOS		EACH	
16	16 Supplying and fixing Air-conditioner Starter with 20Amp SPN MCB & Socket of North West/Havels make in suitable steel enclosures including 20Amp 3 Each pin plug top.	0	NOS		EACH	
17	Earthing :- (General) Earthing installation as per I.E. conforming to IS: 3043 or its latest amendment by making earth station with 600 mm x 600 mm x 3mm (minimum) thick copper electrode to be installed such that its top edge shall be at a minimum depth of 3.0 metre below ground level after preparation of ground with required quantity of charcoal and salt and connecting the MIP with 20mm x 3mm copper earth lead-in-strip directly in ground by bolting and then brazing to the copper plate complete with GI bolts of suitable length, double nuts and washers including supply and fixing of 50mm dia. partly perforated GI pipe with funnel for watering arrangement. The earthing installation should be provided with 300mm x 300mm and 300mm depth inside dimension masonry inspection pit with CI hinged cover having locking arrangement. Notes:- 1) Where ever Chemical Earthing is possible, same may be carried out as per manufacturer's specifications in lieu of above. 2) Earthing resistance must be less than 2 Ohms. 3) Guarantee for a particular period should be obtained from the contractor.	1	NOS		EACH	
18	Drawing earth line with single core PVC insulated 1x4 sq. mm copper wire inside 19mmdia PVC pipe up to UPS.	22	RMT		RMT	

19	Installation of following light fixture complete with lamps, tubes, fixing arrangement in false ceiling/as per layout. including making connection etc.					
	a) LED light fixture recessed type 600x600 40 W	12	NOS		EACH	
	b) LED light fixture Surface type	0	NOS		EACH	
	c) LED Down lighter 15 W	12	NOS		EACH	
	d) Tube light fittings 20 W	10	NOS		EACH	
	e) Wall Bracket Fan 450 MM METAL BODY	4	NOS		EACH	
	f) Ceiling fan 1200 MM WITH STEP REGULATOR	0	NOS		EACH	
	g) exhaust fan 300 MM 1400 RPM	0	NOS		EACH	
	h) wall fan 300 MM for cash counter	1	NOS		EACH	
20	Supply and drawing telephone cable of approved make in the PVC pipe.					
	a) 2 pair	0	RMT		RMT	
	b) 4pair	0	RMT		RMT	
	c) Termination of telephone cable in one end with RJ11 Telephone Socket (Jack type) – 2 nos in 1 module in suitable enclosures.	0	NOS		EACH	
	d) Termination of telephone cable in one end with RJ11 Telephone Socket (Jack type) – 1 no in 1 module in suitable enclosures	0	NOS		EACH	
21	a) Supply and drawing LAN-cable CAT-6(D-link or eqv. make) in the PVC pipe.					
	b) Termination of LAN-Cable in one end by RJ45 Computer Jack & mounting of modular type including supplying and fixing suitable I.O Box in concealed manner (D-link, Roma, Crabtree, MK or eqv. make in Each suitable enclosures)	0	NO		NO	
22	Supply & Fixing patch chords (Cat-6) D-link or eqv.make (i) 3' long	0	NOS		EACH	
	(ii) 7' long	0	NOS		EACH	
	(c) Termination of LAN-Cable in other end by RJ45 socket.	0	NOS		EACH	

GRAND TOTAL = RS.

RS.

REMARK:- NO ADDITIONAL COST WILL BE MADE AGAINST DISMANTLING WORK IF ANY.

MATERIAL SPECIFICATION		
1	PVC insulated Copper Wire (FRLSH grade)	Finolex/Polycab/Havels/RR Kabel/KEI
2	Electric Cables	Havels/Gloster/KEI
3	ELCB+ MCB or RCCB	L&T//Siemens/GE/ Havels/MDS/ Merlin Gerin/Leagrand/HPL
4	MCBs/MCCBs/DBs	L&T//Siemens/GE/ Havels/MDS/ Merlin
5	Modular Switches/Sockets	Anchor / Crabtree /M. K.
6	PVC Conduit /Pipe	AKG/ Precision/Prestoplast/Asian
7	Earthing for Bldg. & UPS	Earth Electrode as per IS: 3043-1978 / Chemical Earthing (Earthing resistance should be less than 2 Ohms)
8	Telephone cable	Delton/ITL/Polycab/Finolex/ RR Kabel/HAVELS
9	Changeover Switch	HAVELS/HPL
10	Lugs	Dowells/Jainson/Equ.
11	ELECTRICAL FIXTURES(FAN/EXHAUST/LED LIGHT FITTING)	CROMPTON/BAJAJ/HAWELLS/WIPRO/ORIENT/ REMI