

INDIAN BANK, ZONAL OFFICE, PUNE – PREMISES DEPARTMENT

Progress House, 3rd Floor, Pune – Mumbai Road, Shivaji Nagar, PUNE – 411005,

ELECTRICAL WORKS OF INDIAN BANK BRANCH AT TASGAON

Name of the Contractor:

B	ELECTRICAL WORKS				
NO	ITEM	UNIT	qty	rate	amount
	SECTION - A				
2	MAIN INCOMING PANEL (MIP)	nos	1		
	Supply, installation, testing and commissioning of wall /floor mounted indoor type, air insulated, totally enclosed vermin-proof, dead front, cubicle type, 2 mm thick sheet steel enclosure main incoming panel (MIP) suitable for use on 415 V, 3 Ph., 4 wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartment. Each unit shall be accommodated in a totally separate compartment having gasketed hinged door with locking arrangement. The Panel shall be complete with switches of following ratings, interconnection, G.I. earth busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts, nuts, washers, etc. The cubicle should be painted with 2 (two) coats of light grey synthetic enamel paint over two coats of zinc chromate primer. Danger sign board in English, and Marathi.				
	The complete fabrication, construction shall be done as per the detailed specification and conforming to the relevant IS. Name plate of Panel, Danger Board, incoming and outgoing feeders with Ampere rating of switches / change over switch are to be fixed up on front door above or below the respective switches. Short circuit I.C. of all MCBs should be of 10 KA (min.) The contractor shall submit the fabrication drawing for approval before fabrication.				
	The MIP consists of the following				
	INCOMING :				
	1 No. : 415V 160A 4P MCCB (25KA min.) having O/L & S/C protection device.				
	1 No. : 415V 50A TPN MCB				
	1 No. : 0-150A 96mm sq. Ammeter with selector switch (4 positions – 3 way and off);				
	1 No. : 0-60A, 96mm square Ammeter with selector switch (4 positions – 3 way and off);				
	1 Nos. : 0-500V 96mm square Voltmeter with selector switch (4 positions – 3 way and off) ; with fuse base and carrier;				
	6 Nos. : Phase indicating lamps.				
	3 Nos. : 150/5A CTS				
	2 sections of PVC sleeved TPN Tinned Copper Busbar				
	a) 25mm x 6mm for phases & neutral for one section &				
	b) 20mm x 5mm for phases & neutral for other section.				
	G.I. EARTH BUSBAR				
	25mm x 6mm covering the total length of panel.				
	Outgoing				
	1 no. 415V 63A 4P auto change over auto reset switch.				
	2 nos. 415V 63A TPN MCB				
	5nos. 415V 32A /40A TP MCB				
	8 nos. 240V 32A/40A SP MCB				
	18 nos. 240V 16A/20 A SP MCB				
3.5	ATM BOARD: -	nos	1		
	40/32 Amps DP MCB in MS enclosure box				
3.6	AC POWER DISTRIBUTION BOARD	nos			
	4 Way TPN DB consist of				
	Incomer: -63 Amps DP MCB - 1 No.				
	Outgoing: -63 Amps DP MCB - 1 No.				
	TOTAL SECTION A				
	SECTION - B				
	POWER CABLE & TERMINATION: -				
1	Supplying, Installation, Testing & Commissioning of LT Cable rated for 600 / 1100 Volts AC as per IS Standard with necessary accessories and termination as required.				

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2	3 .5 Core X 50 Sq.mm. Aluminum armoured cable from Meter Room to Main Power Panel with 2 Nos. of 12 SWG Copper Earth Wire. including crimping	per m	10		
3	4 Core x 6 sq.mm Copper armoured cable with 1 no. of 12 SWG earth wire from MPP to AC DB.	per m	10		
4	10 Sq.mm x 2 nos Copper PVC insulated wire from UPS output to UPS DB with 1 no of 6 sq.mm Copper earth wire.	per m	35		
5	25 sq.mm x 4 nos of lead wire from meter to Main switch in Meter room.	per m	25		
6	2x4 sq.mm +1x1.5 sq.mm thru M.S conduit from main panel to glow sign Board	per m	15		
7	3.5 Core 50 sq.mm PVC insulated Alu armoured cable with 2 nos 8 SWG G.I. wire as running earth.	per m	0		
TOTAL SECTION B					
SECTION - C					
LIGHT POINT with WIRING					
Note: The point mention below is inclusive of circuit wiring. Aa Switch boards should be connected with separate circuit from main panel					
Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm. (1 for phase, 1 (black colour) for common neutral by looping method and 1 (green colour) for common earth by looping method) PVC insulated flexible FRLS copper conductor cable (IS:694) through PVC Conduits of 25mm/20mm of 16 guage thickness (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work includes supply and fixing of all materials as specified make modular type 6A switch for each light and fan point, 6A 2/3 pin shuttered socket outlet with switch, 3 plate ceiling rose / angle or batten holder etc. as required.					
The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm. (1 for phase and 1 (Black colour) for neutral) + 1 no. single core 1.5 sq.mm. (Green colour for earth) PVC insulated flexible (FRLS) copper conductor cable (IS:694) through suitable size PVC. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc. as required to be completed in all respect. All connections of wires to be done by means of "Wago" type connectors. (All wiring in strong room, locker room, records & stationery room will be of surface conduit type).					
1	Primary Light Point	nos	20		
2	Wall Bracket Fan Point with 2/3 Pin socket (to be installed at Fan height and switch)	nos	12		
3	Ceiling Fan Point with supply and fixing of 2 Module step regulator/dimmer (280 W min)	nos	3		
4	Exhaust Fan Point	nos	3		
5	Call Bell Point with Push Bell (Indicator Type or Ding Dong)	nos	1		
6	1x6A 2/3 pin shuttered socket with switch on separate switch board other than fan/light switch board.	nos	5		
7	1x6A 2/3 pin shuttered socket with switch on separate switch board on than fan/light switch board.	nos	5		
8	1x16A 5 pin shuttered socket with switch on separate switch board on than fan/light switch board.	nos	4		
9	AC POWER POINT with WIRING: -	Each	2		

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	A.C. power point wiring from DB with 1100 volt grade 2 Nos. single core 4 sq.mm. + 1 No. 2.5sq.mm. (Green colour for earthing) PVC insulated flexible FRLS copper conductor cable through suitable size M.S. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall. The work includes supply & fixing by chase cutting on wall, 'North-West' make A.C. power unit having 25A 3 pin socket with matching plug, 20A Starter in sheet steel enclosure with 4 module plate, mounting box complete with interconnection, mending good all damages to original finish, painting etc. as required. All connections of wires to be done by means of 'Wago' type connectors.				
10	Supply and fixing of 16/6A 6 pin shuttered socket outlet with switch & indicator, mounting box and suitable size front plate on wall just opposite to Switch Board of Strong Room / Locker Room and supply of 1.1 KV grade 3 core 2.5 sq.mm. round PVC insulated and PVC sheathed flexible copper conductor cable of 1.5 meter length having one (1) no. 16A 3 pin plug at one end and the other end will be permanently connected to the Switch Board inside the room including interconnection, chase cutting, mending good all damages to original finish, painting, etc. as required.	NO	1		
TOTAL SECTION C					
SECTION - E					
LIGHT FIXTURE: -					
	Supplying, Installation, Testing & Commissioning of following light fixtures complete of approved make as per specification with all fitting, accessories such as Junction Box, Hardware, Starter, Connector, Lamps, Tube etc. fittings and make as mentioned below consist of electronic ballast & color 84 PL tube with direct & indirect lighting, all fitting, accessories such as Chain Link Support on Ceiling/ wooden framework approved by Architect. (Before Installation Sample must be shown to Architect)				
a	PHILIPS MAKE RC 3808 LED 25 6500 PS OD WH	Nos	12		
b	PHILIPS MAKE DN 191B LED 6S -6500 PSU WH	Nos	10		
c	PHILIPS MAKE ASTRA BN150W LED 13S-6500 PSE OD GR	Nos	6		
6	CROMPTON CEILING FAN 1200MM dia, white colour with all accessories.	no	3		
7	300mm Exhaust fan with all accessories with mounting ring and louver Complete(white colour only) GEC make.	no	3		
8	400mmdia wll bracket fan with all accessories (White Colour Only)	no	5		
9	Supplying and fixing on wall call bell buzzer (approved by Consultant) suitable for 240 volt single phase A.C. supply including interconnection. etc. as required.	no	1		
TOTAL OF SECTION -E					
SECTION - F					
TELEPHONE CABLING: -					
	S/I/T/Commissioning of 20 pair telephone unarmoured cable from service point to Krone Box INCLUDING CONDUIT/CASING CAPPING (Make - Finolex / Delton / Polycab)	per m		25	
1	TELEPHONE JUNCTION BOX		1		
2	Supply and fixing of 25 pair telephone junction box "Krone" make on wall /furniture/partiion with hinged cover and screwed type tag strips complete with chase cutting, mending good, painting etc. as required. Inc (Make - Krone type Delton / ITL)	per nos			
3	TELEPHONE WIRING	per m	200		
	Supplying and laying of 2 paid 0.50 mm dia Telephone cable through pre - laid rigid PVC conduit as shown in the drawing or otherwise as directed by the consultant from Telephone Junction box to Telephone socket outlet including interconnection, mending good, etc, as required to be completed in all respect. including conduit				
4	TELEPHONE SOCKET	per nos	6		

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	Supply and fixing on wall / furniture / partition recessed type Legrand/North - West/Novar make Telephone socket outlet (RJ 11) with mounting box & front plate as shown in the drawing complete with chase cutting, mending good etc. as required.				
	TOTAL OF SECTION - F				
	SECTION - G				
	MISCELLANEOUS WORK: -				
3.5.1	Earthing the installation as per I.E. rules conforming to IS:3043-1987 or its latest amendment by making earth station with 600mm x 600mm x 6mm (minimum) thick copper plate 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 charcoal and salt and connecting the 25mm x 6mm copper earth lead-in-strip (upto 10 metre length) by bolting and then brazing to the copper plate complete with copper bolts of suitable length double nuts and washers including supply and fixing of 50mm dia. partly perforated G.I. pipe with funnel for watering arrangement. The copper earth lead-in-strip shall be PVC sleeved / insulated throughout the total length and the underground portion to be laid through suitable size heavy duty rigid PVC conduit (ISI mark embossed on conduit surface) at an average depth of 500mm below ground level.				
	The earthing installation should be provided with 300mm x 300mm and 300mm depth inside dimension masonry inspection pit with C.I. hinged cover having locking arrangement and restoring the surfaces <u>duly rammed</u>	Each	2		
3.5.2	Earth lead-in-strip exceeding 10 metre length as mentioned in item no. 3.5.1. with supply and fixing of 25mm x 6mm copper strip having PVC sleeved / insulated to be fixed on wall surface with tinned copper bar saddles / clamps at an interval of 300mm etc. as required to be completed in all respect. Minimum clearance between wall surface and copper earth lead-in-strip should be 6mm.	Mtr.	25		
	TOTAL OF SECTION - G				
	SUMMARY				
	TOTAL SECTION A				
	TOTAL SECTION B				
	TOTAL SECTION C				
	TOTAL SECTION E				
	TOTAL SECTION F				
	TOTAL SECTION G				
B	ELECTRICAL GRAND TOTAL				
	DATA CABLING AND COMPUTER POINTS				
	COMPUTER SOCKET POINT: - (thru UPS supply only)	Set	7		
	Computer socket outlet cluster point wiring with 1100 V grade 3 nos. single core (1 for earth, green colour) 1.5 sq.mm. PVC insulated flexible FRLS copper conductor cable conforming to IS : 694 through suitable size rigid PVC.conduit (ISI mark embossed on conduit surface) and conduit accessories partly through concealed in wall, embedded in floor, partly on surface above false ceiling and partly through partition or through flexible conduit from CDB to computer socket outlet cluster as detailed below and upto connection of 2 nos. socket clusters in 1 (one) circuit connecting by looping method. The work includes supply and fixing of socket outlet clusters components (Legrand/North - west/Novar make) as detailed below.				
	Each computer socket outlet cluster comprising the following :				
	3 nos. 6A 2/3 pin modular type shuttered socket				
	3 nos. 6A modular type controlling switch				
	1 no. 16 /6A 6 pin modular type shuttered socket				

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	1 no.	16A modular type controlling switch		
	1 no.	Front cover of suitable size		
	1 no.	Mounting box of suitable size		
	Note:- All power supply is thru UPS DB. The Control switch is to be located in another board above table. The supply socket is located on another board below table.			
3.3	UPS Power Distribution Board		nos	2
	4 Way TPN DB consist of			
	Incomer: -63 Amps DP MCB - 1 No.			
	Outgoing: - 10/16 Amps SP MCB - 14 Nos.			
3.4	UPS INPUT/ OUTPUT consist of		nos	4
	63 Amps/40 Amps DP MCB in MS enclosure box			
COMPUTER POINTS				
1	DATA CABLING (including conduit casing capping)			
2	SUPPLY & INSTALLATION OF CAT 6 UTP CABLE		per m	305
3	CAT 6 INFORMATION OUTLET WITH FACE PLATE		per no	8
4	24 PORT CAT 6 JACK PANNEL		per no	1
5	3 FT. PATCH CORD CAT 6		per no	8
6	7 FT. PATCH CORD CAT 6		per no	8
7	24 PORT 10/100 FAST ETHERNET SWITCH		per no	1
8	12 U WALL MOUNTING 19" STANDARED NETWORKING RACK		per no	1
B	DATA CABLING COST			
TOTAL DATA +COMPUTER POINTS				
AIR CONDITIONING (branch and ATM)				
no	item		unit	Qty
PART A: SUPPLY OF MACHINARY				
1	Air Cooled packaged Air Conditioning System (voltas 2 STAR RATING only)			
	Supplying and erecting split type room Airconditioning unit (tonnage as mentioned below) ton capacity suitable to operate on 250 Volts, 50 cycles,A.C. supply having 1 Nos. of air handling units highwall mounting type having cooling capacity as per capacity mentioned below and the condensing unit connected with 12/9 mm copper piping upto 5 mtr. duly insulated and 3 core copper flexible cord of required length etc. and stand for condensing unit with testing etc. complete and marking Sr.No. and date of erection and remote. Complete. with voltage stabiliser			
1a	Capacity of unit = 2 T SPILT AC WALL mount AC (In main Banking		NO	0
1B	Capacity of unit = 1.0 T SPILT AC WALL mount AC (ATM+SERVER)		NO	3
	timer		NO	1
PART A: SUPPLY OF MACHINARY TOTAL COST				
PART B: INSTALLATION WORK				
2	ADDITIONAL COPPER PIPING		per m	15
	Copper piping between indoor and outdoor unit. Suction line to be insulated with elastometric nitrile rubber tubular insulation of 9mm thickness and joints sealed with black moonsoon tape, with electrical wiring Complete			
3	DRAIN PIPE		per m	15
	Drain piping of 25mm dia PVC pipe for drainage of condensate.(Prince/supreme make)			
4	STANDS		nos	3
	MS Stands/brackets for unit along with level adjustment.			
5	INSTALLATION CHARGES		nos	3
6	Piping concealing work, Making cahses in the wall filling with P.O.P ma		per m	30
PART B: TOTAL INSTALLATION WORK				
PART A				
PART B				
TOTAL COST (AIR CONDITIONING)				

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no	Item of work	unit	qty	
	ELECTRICAL OF ATM			
	ELECTRICAL WORK (all work shall be as per relevant ISI code, materials to be used are Finolex Wires, Havells mcb/Anchor Roma, Wall conceled switches.			
	Part A			
1	UPS cabling In 2.5 sq.mm wiring, thee nos with conduiting	no	2	
2	Raw power cabling In 4.0 sq.m mm with conduiting for AC and Power points	no	1	
3	Signage Cabling In 2.5 sq.mm wiring, thee nos with conduiting	no	1	
4	6 sq.mm Cu wire in flexi conduit PVC conduiting with 2 sq.mm Cu wire for earthing for VSAT Dish anntenna	no	1	
5	Earthing	no	0	
6	Copper plate earthing station with earthing resisenace of less than 1 ohm, pit to be dug minimum 10 feet deep with with mixture of Charcoal and salt. The pit to be properly covered with a funnel and lid for maintainence.	no	1	
	Lighting Cabling in 1.0 sq.mm wiring	no	1	
7	Main switch Providing and fixing in position main switch 63 Amps 415 Volt T.P.N with HRC FUSE.	no	1	
8	Raw power Dist. Board ___ with 5 no of MCB and Input isolation MCB of 63 amps for Raw Power and 4 no of MCB and input Isolation MCB of 40 Amps for UPS power Complete.	no	1	
9	AC Power Dist. Board with 1 no 32 Amps MCB	no	1	
10	Light points including switches and plates	no	5	
11	Power points 5 amp 5 AMPS SWITCHES WITH Plate/box for light points, Complete.	no	5	
12	Power points 15 amp 15 AMPS SWITCHES WITH Plate/box for light points, Complete.	no	3	
13	AC points	no	2	
14	PHILIPS MAKE DN 191B LED 6S -6500 PSU WH	Nos	4	
15	PHILIPS MAKE ASTRA BN150W LED 13S-6500 PSE OD GR	Nos	1	
	TOTAL AIR CONDITIONING			
	TOTAL OF ELECTRICAL, DATA CABLING & AIR CONDITIONING ATM			
	TOTAL OF ELECTRICAL, DATA CABLING & AIR CONDITIONING BRANCH			
	GRAND TOTAL			
	Less Discount if any - %			Rs.
	Total OF ELECTRICAL, DATA CABLING & AIR CONDITIONING Works			Rs.
	Total amount in words : Rupees			