

**PRICE BID FOR ELECTRICAL INSTALLATION WORKS OF STATE BANK OF INDIA, MALLAN**

SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
<b>PART- A</b>					
<b>UPS &amp; RAW POWER POINTS</b>					
1	Supply all materials receiving, storing, handling, fixing & laying of 3 x 2.5 Sq.mm. PVC insulated copper conductor armoured cable and fixing of cable on wall with suitable size of clamps / saddles or laid in floor or recess wall including cutting of floor / wall for computer points with suitable size GI box with modular plate and cover in front including providing and fixing 3 No. 5 amp 3 pin <b>modular</b> socket controlled by 1 No. 5 amp <b>modular</b> switch with indicator , connection end terminations with suitable size of glands etc. complete as reqd.(On UPS Power) (switch and indicator on top of table and sockets under table.	25	Each		
1 (A)	As per item 1 above but with 2 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp modular switch.(For E-lobby UPS and data points are to be provided in lock and key arrangement))	6	Each		
2	As per item 1 above but with 2 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp <b>modular</b> switch with indicator.(On Raw power for general supply and for printer ) (switch and indicator on top of table and sockets under table.	11	each		
<b>DISTRIBUTION BOXES</b>					
3	supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming isolator and outgoing MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as reqd. as per details below :-				
(a)	12 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63 Amp isolator and 10 no. 6/10 Amp MCBs etc. complete as reqd.( <b>For UPS Supply to computers</b> )	2	no.		
(b)	6 way MCBDB double door comprising of 1 no. 40 amp DP isolator and 4 no. 6/10amp MCBs etc. complete as reqd. ( <b>For ATM UPS Supply</b> )	1	no.		
(c)	4 way TPN MCBDB double door comprising of 1 no. 100 amp isolator and 6 no. 32 amp DP MCBs etc. complete as reqd. (For Ac Circuit)	2	no.		
d)	4 way TPN MCBDB double door comprising of 1 no. 100 amp isolator and 12 no. 16/25 amp SP MCBs etc. complete as reqd. (For Ac Circuit)	1	no.		
e)	4 way TPN MCBDB(8+12module) double door comprising of 1no.. 63amp, 4P, 30mA ELCB, 1 no. 63 amp,4P, isolator and 12 no. 6-32 amp SP MCBs etc. complete as reqd. (for lighting ckt)	1	no.		
<b>CONTROL AND DISTRIBUTION PANELS</b>					
4	Providing and fixing 3 no. 200Amp kitkats (fuse carrier & base) with 1 no. neutral link on suitable size of Bakelite sheet of thickness not less than 6mm etc. complete as reqd.	1	no.		
<b>PANELS</b>					

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<b>5</b>	Supply at site installation, testing & commissioning of panel fabricated with 16 S.W.G.M.S. sheet. The panel shall be free standing type totally enclosed dust & vermin proof construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, G.1. earth bus bar, bus bar chamber cable alleys interconnections with solid bar/PVC insulated copper conductor as per requirement, and suitable supports of bus bars. The panel shall be painted with 2 coats of enamel paint (grey shade)over the primer and shall also be provided with designation of incoming.(Bus bar to MCCB connection through bus bar only not through flexible wire)				
<b>5.1</b>	<b>Main Panel</b>	1	set		
	<b>INCOMING</b>				
<b>(a)</b>	1 no MCCB breaking capacity 36 KA 160 amp 4P, Model-DU250 Series, L&T make				
<b>(b)</b>	1 set of 200 amp 4 strips aluminium bus bar chamber in separate compartment				
<b>(c)</b>	no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate compartment				
	<b>OUTGOING</b>				
<b>(a)</b>	1 no 125amp, 4p, 36KA MCCB, 2 no. 100 amp, 3p, 25ka, MCCB breaking capacity 1 no. 63 amp 3P with suitable neutral link,(Make DN Series L&T, Havells Series , Schneider, or Equivalent Make) For Light DB, UPS Panel Supply, AC DB, E-lobby, Spare				
<b>5.2</b>	<b>Emergency Panel</b>	1	set		
	<b>INCOMING</b>				
<b>(a)</b>	1 no MCCB breaking capacity 36 KA 125 amp 4P, Model-DU250 Series, L&T make				
<b>(b)</b>	1 set of 200 amp 4 strips aluminium bus bar chamber in separate compartment				
<b>(c)</b>	no 0 -500V digital Voltmeter in separate compartment and digital Amp meter and one set of CTs ( 3 Nos ) with CT Ratio 200/5 A with LED type phase Indication Lamps with protection fuses in a separate compartment				
	<b>OUTGOING</b>				
<b>(a)</b>	2 no. 100 amp, and 3 no. 63amp 3p, 25ka, MCCB with suitable neutral link,(Make DN Series L&T, Havells Series , Schneider, or Equivalent Make) For Light DB, UPS Panel Supply, AC DB, E-lobby, Spare				
<b>6</b>	Supply, installation, testing & commissioning of PVC insulated PVC sheathed Un armored cable of 1100 V (IS-1554 part 1) and fixing of cable on wall with suitable size of clamps/saddles or laid in floor /recess wall including cutting of floor/wall and making good the damages etc. complete as requd. of following sizes:-				
<b>a)</b>	3.5 core x 50 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire ( ( Distribution From Main Switch and From Main panel to Changeover and Changeover to Generator panel and Generator to changeover) )	40	per mtr.		
<b>b)</b>	3.5 core x 25 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (From panel to AC DB, UPS panel)	90	per mtr.		

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c)	4 core x 16 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (for light DB)	25	per mtr.		
d)	3 core x 6 sq.mm. copper conductor (from UPS room to UPS DB & main panel to e-lobby room)	70	per mtr.		
e)	3 x 2.5 sq.mm. copper conductor ( for AC distribution)	160	per mtr.		
7	End termination with brass compression glands including providing lugs/ferrules and making necessary connection etc. complete as reqd. following sizes:				
a)	3.5x50 sq.mm. Aluminium conductor	4	each		
b)	3.5x25 sq.mm. Aluminium conductor	8	each		
c)	4x16 sq.mm. Aluminium conductor	12	each		
d)	3x6 sq.mm. copper conductor	2	each		
e)	3x2.5 sq.mm. copper conductor	16	each		
8	Providing and fixing <b>200A, 4P ON LOAD Change Over Switch</b> with suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame & painting etc. complete as required	1	job		
<b>UPS DISTRIBUTION BOARD</b>					
9	Providing and fixing 16 S.W.G. MS sheet adapter box, and also base frame for installation of MCB DBs plug and socket arrangement and to cover cables in UPS room including painting etc. complete	1	sq. mtr.		
10	supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming and outgoing isolator and MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as reqd. as per details below :-				
	(a) 4 way SPN DB comprising of 1 no. 63 amp TPN MCB ( for UPS input)	1	each		
	(b) 4 way SPN DB comprising of 2 no. 63 amp DPMCB (UPS out put)	3	each		
11	supply fixing, testing of following 3 pin metal clad industrial type plug & socket arrangement with plug top cap & chain controlled by 1 No. MCB				
	(a) 20/25 amp with 20/25 amp SPMCB( For Acs and UPS)	12	no.		
	(b) 30 amp with 32 amp SPMCB ( For UPS )	3	no.		
12	providing and laying following sizes of PVC insulated copper conductor cable of 1100V in flexible/PVC conduit with accessories such as glands, bends etc. (as per requirement) including making necessary inter connection etc complete as reqd. 2X6 sq.mm with 1 suitable PVC insulated earth wire	30	per mtr.		
13	providing and fixing suitable size of MS box fabricated with 16 S.W.G. MS sheet either in recess wall or on surface to accommodate dedicated earth from earth electrode and further distribution of earth to computer points including providing 5mm Bakelite sheet on base connector strip and painting of box etc complete as reqd	1	job		
<b>EARTHING</b>					
14	(a) supply and fix copper plate earth station with 600x600x3 mm thick copper plate including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i/c excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as reqd as per IS-3043-1987. The voltage between neutral & earth must be below 1 volt.	1	set		

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SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
	(b) supply and fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe and funnel and providing masonry enclosure at top with cover plate i/c excavation of pit, supplying and filling of salt charcoal, refilling of pit etc complete as reqd as per IS-3043-1987.	2	set		
15	c) Supplying, fixing & termination of 20x3mm copper strip with earth station below ground level etc complete as reqd.	4.00	mtr.		
	d) Supplying, fixing & termination of 32x6mm G.I. strip with earth station below ground level and on wall saddle etc complete as reqd.	8.00	mtr.		
16	Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	35	mtr		
	Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	35	mtr		
17	Supply & laying 2mm thick 25 mm dia ISI mark PVC conduit pipe complete with accessories such as bends, junction boxes etc under floor or in recessed walls from copper earth electrode to UPS room for computer dedicated earthing, from GI earth electrode to main panel & UPS panel etc. wherever reqd. <b>Note:</b> flexible pipe not to be used any where.	70	mtr		
<b>COMMUNICATION</b>					
18	Networking for computer networking starting from mounting rack with UTP CAT-6 cable in 2mm thick 25 mm dia ISI mark PVC conduit with accessories such as bends, junction boxes including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as reqd. <b>Note:</b> flexible pipe not to be used any where with ferling /marking by pvc tags on both end of networking cable.	22	no.		
19	Suppy, installation, testing and commissioning of 24-port Patch Panel	1	no.		
20	Supply,Installation, testing and commissioning of mounted rack 15" height made of powder coated MS sheet	1	no.		
21	supply, installation, testing and commissioning of <b>factory made</b> patch cable CAT-6 complete with 2 no. connectors etc. complete as reqd.				
	(a) 1 mtr. long	22	no.		
	(b) 2 mtr. long	12	no.		
	(c) Data cable CAT-6 with connector	38	Nos		
22	wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolatic copper conductor in 2mm thick 25mm dia ISI marked PVC conduit complete with accessories such as bends, junction boxes etc. with suitable size of G.I. box modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making necessary connections etc. complete as reqd. <b>Note</b> flexible pipe not to be used any where.	9	no.		
23	Supply & fixing of 10 pair FRP/PVC/Metal junction box with KRONE disconnection module necessary tag for identification	1	no.		
24	supply, installation, testing and commissioning of 10 pair telephone unarmoured cable as required. (Make- finolex/delton/polycab)	30	mtr.		
25	Automatic Programmable Time Switch 24 Hour for AC in ATM & Exhaust fans in UPS Room (Make: L&T or equivelent to	2	no.		

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SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
26	Supply Installation, testing & commissioning of LED STRIP light with driver and Accessories complete as required ( MS CROMPTON or equivalent of WIPRO , PHILLIPS, BAJAJ etc.				
a)	Blue Colour Cat No.LST 20 BL(M/s Crompton) <b>Only for Column CNC)</b>	25	mtr		
b)	Warm white Cat No. 38389 (M/S Philips) <b>(For Ceiling Cove)</b>	20	mtr		
27.1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular socket,modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.				
(a)	One light point controlled by one switch	25	no.		
(b)	Two light point controlled by one switch	37	no.		
(c)	One plug point	15	no.		
(d)	one switch controlled by one socket (independent for wall fan)	10	no.		
27.2	Wiring for raw power at each seat with 2x1.5sqmm+1x1.0sqmm FRLS copper wire in surface / recessed medium class PVC conduit, with 5amp modular switch and 3-pin modular socket,modular plate, suitable GI box on top of each table etc complete as required.	8	no.		
28	Wiring circuit/submain wiring along with earth wire with the following size of PVC single core FRLS copper conductor wire in 2mm thickness PVC pipe as required: 2x2.5 sq mm + 1x1.5 sq mm earth wire	175	mtr		
29	Supply,installation, testing and commissioning of refrigeration pipe including cutting of wall and fixing with suitable saddles or clamps, providing suitable size of sleeves for passing refrigerant pipe from indoor to outdoor unit including making necessary arrangement etc. complete as required.				
	a) For High Wall A.C. (1.0 & 1.5 Tr) Copper pipe size (1/2" & 1/4")	100	mtr		
	b) HWS/Cassette A.C. (2.0 Tr & 3.0Tr) Copper pipe size (5/8" & 3/8")	10	mtr		
30	Supply & fixing of 25/32 mm dia hard pipe with 4mm insulation for drain complete with all accessories such as tee, U bend, bend cutting chases making good the damages and leak proof joints to avoid seepage in wall/floor etc. complete as required.	70	mtr		
31	Cutting of floor/wall for laying of refrigerant/drain pipe including making good the damages etc. complete as required (excluding the area having ceramic floor tiles, where the chased floor will be got repaired by the firm executing the A.C. work, however, ceramic tiles will be got fixed by the Bank.	95	mtr		
32	Supply and laying of 4 core 2.5 sq mm FRLS copper flexible cable (for HWS AC) Make: Finolex / Polycab / Havells (indoor to outdoor unit connection)	130	mtr		
	<b>TOTAL</b>				

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<b>PART- B</b>					
<b>SN.</b>	<b>DESCRIPTION OF ITEM</b>		<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>SUPPLY OF FIXTURES</b>					
1	SITC of 36 watt recess mounted <b>LED Light panel</b> suitable for 2' x 2' modular/gypsum ceiling with assembly complete with including making necessary frames & connections etc. Complete as reqd. ( M/s Crompton Cat No. LCTLRN-36-FO-CDL or equivalent of Philips/Wipro/ Bajaj)	20	no.		
2	SITC of 15 watt recess mounted <b>LED down lighter</b> with assembly complete with including making necessary connections etc. Complete as reqd. ( M/s Crompton Cat No. LCDE-15-CDL or equivalent of Philips/Wipro/ Bajaj)	49	no.		
3	SITC of 450 mm, metal wall fan complete as reqd. Make-Crompton Greaves	10	no.		
4	Supply and fixing of LED type fitting <b>22 watt, 4 feet</b> (M/s Phillips or equivalent of Wipro/ bajaj)	5	no.		
5	Supply and installation of 12" <b>size medium duty exhaust fan with self opening metal louvers/shutters.</b> (Make: Crompton High Flo or equivalent of Khaitan / Bajaj (Necessary framing, wall cutting & finishing to be done by Contractor) (two in UPS room)	6	no.		
6	SITC of 30 watt Street light /Flood light for lighting the front side of the branch(M/s Crompton Cat No. LSTS-30-CDL or equivalent of Philips/Wipro.	2	Each		
7	Providing &,installation, <b>48" 32W, BLDC</b> Ceiling fan with regulator,hanging hook etc complete as reqd. ( M/s crompton or equivalent of Usha/Atomberg) with Extenion rod	6	Each		
<b>Total - Part B</b>					
<b>TOTAL PART-A</b>					
<b>TOTAL PART-B</b>					
<b>i</b>	<b>SUB TOTAL</b>				
<b>G.S.T as applicable will be paid extra by the bank</b>					

- Note:** (i) UPS point & networking point for e - lobby is to be provided in locking arrangement.  
(ii) Only two computer points are to be provided on one circuit. Independent circuit for Raw power