

TENDER FOR ELECTRICAL INSTALLATION WORKS OF STATE BANK OF INDIA, SBI BO- WARING KHERA.					
SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
PART- A					
UPS & RAW POWER POINTS					
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 modular socket controlled by 1 No. 5 amp modular switch with indicator , connection end terminations with suitable size of glands etc. complete as reqd.(On UPS Power)	13	Each		
1.1	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))	3	Each		
2	As per item 1 above but with 1 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp modular switch with indicator.(On Raw power for general supply and for printer and 1 Nos in Pantry)	5	each		
DISTRIBUTION BOXES					
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 SPMCBDB 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.(For UPS Supply to computers)	1	no.		
(b)	6 way SPMCBDB double door comprising of 1 no. 40 amp DP isolator and 4 no. 6/10amp MCBs etc. complete as reqd. (For ATM UPS Supply)	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 on Raw Supply)	2	no.		
(d)	4 way TPN MCBDB double door comprising of 1 no. 100 amp isolator and 12 no. 6-32 amp SP MCBs etc. complete as reqd. (for lighting ckt)	1	no.		
CONTROL AND DISTRIBUTION PANELS					
4	Providing and fixing 3 no. 100Amp 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.		
PANELS					

5	Supply, installation, testing & commissioning of wall mounted cubical type electrical panel fabricated with 16 S.W.G. MS 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, GI earth buss 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(gray shade) over the primer and shall have be provided with designation of incoming and outgoing feeder as per details below:-				
5.1	Generator Panel	1	set		
	INCOMING				
(a)	1 no MCCB breaking capacity 36 KA 125 amp 4P, DN SERIES				
(b)	1 set of 160 amp 4 strips aluminium bus bar chamber in separate compartment				
(c)	1no. 0-500V Digital multimeter in a separate compartment & Digital Ammeter and one set of CTs (3no.) with CT ratio150/5 A with LED type indication lamps with protection fuses in separate compartment				
	OUTGOING				
(a)	5 no MCCB breaking capacity 25 KA 63 amp 3P with suitable neutral link, DN SERIES (For Light DB, UPS Panel supply, AC DB, E lobby, Spare)				
6	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 reqd. of following sizes:-				
a)	3.5 core x 25 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (From panel to AC DB)	45	Per mtr.		
b)	4 core x 16 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (for light DB, UPS Panel & ATM)	75	Per mtr.		
c)	3 core x 6 sq.mm. copper conductor (from UPS room to UPS DB & main panel to e-lobby room)	80	Per mtr.		
d)	3 x 2.5 sq.mm. copper conductor (for AC distribution)	130	Per mtr.		
7	End termination with brass compression glands including providing lugs/ferrules and making necessary connection etc. complete as reqd. following sizes:				
a)	3.5x25 sq.mm. Aluminium conductor	10	each		
b)	4x16 sq.mm. Aluminium conductor	6	each		
c)	3x6 sq.mm. Aluminium/copper conductor	4	each		
d)	3x2.5 sq.mm. copper conductor	14	each		
8	Providing and fixing 100A, 4P ON LOAD Change Over Switch with suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame & painting etc. complete as required	1	job		
	UPS DISTRIBUTION BOARD				
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 system 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)	2	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)	14	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		
	EARTHING				
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		
	(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	a) Supplying, fixing & termination of 20x3mm copper strip with earth station below ground level etc complete as reqd.	3.00	mtr.		
	b) Supplying, fixing & termination of 32x6mm G.I. strip with earth station below ground level and on wall saddle etc complete as reqd.	6.00	mtr.		
16	a) Providing and fixing of 8 SWG copper earth wire in the recess for loop earthing etc. as required.	45	mtr		
	b) Providing and fixing of 8 SWG GI earth wire in the recess for loop earthing etc. as required.	45	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. Note: flexible pipe not to be used any where.	90	mtr		
	COMMUNICATION				

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. Note: flexible pipe not to be used any where.	13	Nos		
19	Supply, installation, testing and commissioning of 24-port Patch Panel	1	Nos		
20	Supply,Installation, testing and commissioning of mounted rack 15" height made of powder coated MS sheet	1	Nos		
21	supply, installation, testing and commissioning of factory made patch cable CAT-6 complete with 2 no. connectors etc. complete as reqd.				
	(a) 1 mtr. long	13	Nos		
	(b) 2 mtr. long	8	Nos		
	(c) Data cable CAT-6 with connector	42	Nos		
22	wiring for telephone points with 0.5 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. Note: flexible pipe not to be used any where.	5	Nos		
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 (Make: L&T or equivalent to Legrand/Havells/Seimens)	1	no.		
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)	Warm white Cat No. 38389 (M/S Philips)	5	mtr		
27	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. including DB to Switch board 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				

(a)	One light point controlled by one switch	20	no.		
(b)	Two light point controlled by one switch	15	no.		
(c)	One plug point	10	no.		
(d)	One switch controlled by one socket (independent for wall fan)	6	no.		
e)	Providing point wiring for Emergency Light Point on UPS Supply using 2 x 1.5 sq. mm FRLS copper conductor PVC insulated wires and 1.0 sq. mm FRLS PVC insulated green colour copper earth wire for continuous earthing upto fixture & switch board in PVC conduits of 20 mm dia & 2 mm wall thickness, surface mounted on ceiling, concealed in wall and or through partitions with necessary boxes / pull boxes, ceiling - rose or bright light holder and proper clamping complete as per the final approval of Architect / Consultant (1Nos- BM Cabin, 1 Nos SWO above, and 2 Nos Hall Area.	4	no.		
28	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")	85	mtr		
29	Supply & fixing of 25 mm dia hard pipe for drain complete with all accessories such as tee, bend cutting chases making good the damages and leak proof joints to avoid seepage in wall/floor etc. complete as required.	25	mtr		
30	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.	25	mtr		
31	Supply and laying of 3 core 2.5 sq mm FRLS copper flexible cable (for HWS AC) Make: Finolex / Polycab / Havells / Pyemen / Ecko	100	mtr		
TOTAL					
PART- B					
SN.	DESCRIPTION OF ITEM		UNIT		
SUPPLY OF FIXTURES					
1	SITC of 36 watt recess mounted LED Light panel 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)	14	no.		
2	SITC of 15 watt recess mounted LED down lighter 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)	30	no.		
3	Supply and fixing of LED type fitting 20 watt, 4 feet (M/s Phillips or equivalent of Wipro/ bajaj)	8	no.		

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4	Supply and installation of 12" size medium duty exhaust fan. (Make: Crompton High Flo or equivalent of Khaitan / Bajaj (Necessary framing, wall cutting & finishing to be done by Contractor)	3	no.		
5	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.	4	Each		
6	Supply ,installation,36" Ceiling fan with regulator,hanging hook etc complete as reqd. (M/s crompton or equivalent of Usha/Bajaj) with Extension rod	3	Each		
7	SITC of 450 mm sweep wall fan Full Metal Body complete as reqd. Model turbo 180, USHA Make or equivalent of Crompton /Havells /Bajaj)	6	Each		
Total - Part B					
TOTAL PART-A					
TOTAL PART-B					
i	SUB TOTAL				
G.S.T as applicable will be paid extra by the bank					

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 plug and A.C point is to be provided starting from MCB distribution system.

Signature and seal of Contractor's