

TENDER ID: SBI/RBO-1/LUDHIANA/002



STATE BANK OF INDIA

INVITES

E - TENDER DOCUMENT FOR

**ELECTRICAL WORK FOR STATE BANK OF INDIA,
MADHOPURI (31020), LUDHIANA.**

TENDER NOTICE THROUGH E –
TENDERING PROCESS

PRICE BID

REGIONAL MANAGER, REGIONAL BUSINESS OFFICE-1,

LUDHIANA

TENDER SUBMITTED BY :

NAME: _____

ADDRESS: _____

MAIL ADDRESS: _____

NAME & PHONE NO. _____

OF CONTACT PERSON: _____

Architect:

SANGAM ASSOCIATES, 93, Maya Nagar, Near Rose Garden,
Civil Lines, Ludhiana.

Ar. Sumit Sharma, Email –
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**TENDER OF ELECTRICAL WORKS OF STATE BANK OF INDIA, MADHOPURI
BRANCH, (31020) LUDHIANA.
(PART-A)**

SN.		QTY.	UNIT	RATE	TOTAL
	<u>UPS & RAW POWER POINTS</u>				
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. 15 amp modular 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)	22	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 only for printer)	0	each		
3	As per item 1 above but with 2 Nos. 15 A 6 pin socket controlled by 1 no 15 A switch and indicator.(UPS and Data points for e-lobby are to be provided in lock and key arrangement)	4	each		
	<u>DISTRIBUTION BOXES</u>				
4	supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming 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)	8 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63 Amp isolator and 6no. 6/10 Amp MCBs etc. complete as reqd. (For banking hall)	3	no.		
(b)	6 way MCBDB double door comprising of 1 no. 40 amp isolator and 4 no. 6/10amp MCBs etc. complete as reqd. (For E-Lobby)	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 Acs)	2	no.		
(d)	4 way TPN MCBDB double door (8+12 module) comprising of 1no. 63Amp, 30mA ELCB & 1 no. 63 amp, 4p ole isolator and 12 no. 6-32 amp SP MCBs etc. complete as reqd. (For lighting circuits)	1	no.		

(e)	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 Raw power)	1	no.		
	<u>CONTROL AND DISTRIBUTION PANELS</u>				
5	Supply and fixing of 3 no. 200 Amp 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.		
	<u>PANELS</u>				
6	Supply at site 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:-	1	set		
	<u>INCOMING</u>				
(a)	1 no MCCB breaking capacity 36 KA, DN series, 160 amp 4P				
(b)	1 set of 200 amp 4 strips aluminium bus bar chamber in separate compartment				
(c)	1no. 0-500V Digital Voltmeter in a separate compartment & Digital Ammeter and one set of CTs (3no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in separate compartment				
	<u>OUTGOING</u>				
(a)	3 no MCCB breaking capacity 25 KA, DN Series, 100 amp 3P with suitable neutral link				
(b)	1 no MCCB breaking capacity 36 KA, DN Series, 125 amp 4P with suitable neutral link.				
7	Supply, installation, testing & commissioning of PVC insulated PVC sheathed 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:- (make-Polycab/finolex/havells)				
(a)	3.5x50 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire(from Meter to kit-kat to COS)	50	per mtr.		
(b)	3.5x25 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (From panel to UPS panel & from DG to panel)	90	per mtr.		

(c)	4x10 sq.mm. Aluminium conductor with 2 no. 8 S.W.G. GI wire (for light DB & from panel to System room AC DB & light DB)	50	per mtr.		
(d)	3x6 sq.mm. Copper conductor with 1 no. 8 S.W.G. GI wire (UPS DB's)	90	per mtr.		
(e)	4x4 sq.mm. copper conductor (for AC distribution)	0	per mtr.		
(f)	3x2.5 sq.mm. copper conductor (for AC distribution)	70	per mtr.		
8	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	5	each		
(b)	3.5x25 sq.mm. Aluminium conductor	10	each		
(c)	4x16 sq.mm. Aluminium/copper conductor	6	each		
(d)	3x2.5 sq.mm. copper conductor	15	each		
(e)	3x6 sq.mm. copper conductor	6	each		
9	Supply and fixing of 200A, 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		
	ESSENTIAL PANEL				
10	Supply at site 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:-	1	set		
	INCOMING				
	1 no MCCB breaking capacity 36 KA, DN series, 125 amp 4P				
	1 set of 200 amp 4 strips aluminium bus bar chamber in separate compartment				
	1no. 0-500V Digital Voltmeter in a separate compartment & Digital Ammeter and one set of CTs (3no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in separate compartment				

	OUTGOING				
	6 no 50-63A,3 Pole, MCCB breaking capacity 25 KA, DN series				
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 & UPS)	10	no.		
	(b) 30amp with 32amp SPMCB (For UPS) i/p	4	no.		
	(c) 30amp with 32amp DP MCB (For AC's)	7	no.		
	(d) 30amp with 32amp TPN MCB (For AC)	0	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 20x3 mm copper strip with earth station below ground level etc complete as reqd.	4	mtr		
	(b) supplying, fixing & termination of 32x6 mm G.I. strip with earth station below ground level and on wall saddle etc complete	8	mtr		
16	(a) providing and fixing 8 S.W.G. copper earth wire on surface or in recess for loop earthing etc. as reqd.	32	mtr		
	(b) providing and fixing 8 S.W.G. G.I. earth wire on surface or in recess for loop earthing etc. as reqd.	62	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.	52	mtr		
18	Providing wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolytic 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.	11	no.		
19	Supply & fixing of 20 pair FRP/PVC/Metal junction box with KRONE disconnection module necessary tag for identification	1	no.		
20	supply, installation, testing and commissioning of 20 pair telephone unarmoured cable as required. (Make-finolex/delton/polycab)	50	mtr.		
21.1	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)	Primary point (light / fan/call bell controlled by one switch)	35	no.		
(b)	Two light points controlled by one switch	35	no.		
(c)	one switch controlled by one socket (independent for wall fan)	15	no.		
(d)	Socket Point	10	no.		
21.2	RAW POWER: Supply all material, storing, handling, fixing of supply points in suitable size of GI/PVC box including providing 2 nos 15 amps 6 pin modular sockets under table top, controlled by 1 no 15 A moduler type switch with indicator to be provided above table top with moduler cover plate etc complete as required including 3X2.5 sq. mm copper flexible cable in 25mm dia PVC conduit complete. (independent circuit from MCB DB to a the supply point)	14	no.		

21.3	RAW POWER: Supply all material, storing, handling, fixing of supply points in suitable size of GI/PVC box including providing 1 nos 55 amps 5 pin modular sockets under table top, controlled by 1 no 5 A modular type switch with indicator to be provided above table top with modular cover plate etc complete as required including 3X2.5 sq. mm copper flexible cable in 25mm dia PVC conduit complete. (independent circuit from MCB DB to a the supply point)	11	no.		
22	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.	190	mtr		
	(NETWORKING)				
23	Wiring for computer networking starting from mounting rack with UTP CAT-6 cable in 2 mm thick 25mm 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.	24	no.		
24.1	Shifting, installation, testing and commissioning of existing 24-port Patch Panel	1	no.		
24.2	Supply, installation, testing and commissioning of existing 24-port Patch Panel	1	no.		
25.1	Shifting, installation, testing and commissioning of existing mounted rack 15" in depth made of powder coated MS sheet.	1	no.		
25.2	Supply, installation, testing and commissioning of existing mounted rack 15" in depth made of powder coated MS sheet.	1	no.		
26	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.				
(a)	1 mtr. Long	24	no.		
(b)	2 mtr. Long	15	no.		
(c)	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. Connectors as per requirement	40	mtr		
27	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) High Wall A.C. (1.0 & 1.5 Tr) Copper pipe size (1/2" & 1/4")	60	mtr		
	b) HWS/Cassette A.C. (2.0 Tr & 3.0Tr) Copper pipe size (5/8" & 3/8")	90	mtr		

28.1	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.	60	mtr		
28.2	Supply & fixing of 32 mm dia hard pipe for drain complete with all accessories such as tee, bend, U traps, cutting chases making good the damages and leak proof joints to avoid seepage in wall/floor etc. complete as required.	50	mtr		
29	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.	16	mtr		
30	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)	150	mtr		
31	Supply and laying of 3 core 3.5 sq mm Copper FRLS copper flexible cable (for HWS AC) Make: Finolex/Polycab/Havells/ (Ac Db to supply point indoor/outdoor unit)	100	mtr		
32	Removal and re-installation of existing air conditioners				
a	1.5 ton HWS AC	2	no		
33	Removal and dismantling of existing electrical installations like fan and fixtures, wires, cables, panels, Dbs , network points, Copper pipe, Cat-6 wire, Telephone wires etc.	1	Job		
TOTAL					
(PART-B)					
SUPPLY OF FAN & 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. LCTRLN-36-FO-CDL or equivalent of Philips/Wipro)	32	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)	40	no.		

3	SITC of 400/450 mm sweep metal body wall fan etc complete as reqd. (M/s Crompton Greaves)	15	no.		
4	Supply and fixing of LED type fitting 22 watt, 4 feet (M/s Phillips or equivalent of Wipro/ bajaj/Crompton)	10	no.		
5	Supply and fixing of 15W Philips LED BULB with suitable batten holder (Toilets, Pantry & UPS Room)	10	no.		
6	Supply and installation of 12" size, Heavy duty,metallic frame exhaust fan with self opening metal louvers/shutters. (Make: Crompton/Usha/ Bajaj (Necessary framing, wall cutting & finishing to be done by Contractor)	6	no.		
7	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)	SITC of Blue/white Colour Cat No.LST 20 BL(M/s Crompton) as required	60	mtr		
8	SITC of timer for UPS exhaust and AC timer in ATM Room	2	no.		
9	SITC of timer for sign board and flood lights	1	no.		
10	SITC of 48", 32W BLDC ceiling fans (make atomberg/crompton/havells)	5	no.		
TOTAL					
GRAND TOTAL (PART-A) + (PART-B)					