

**FINANCIAL BID OF ELECTRICAL WORKS FOR STATE BANK OF INDIA,  
CHADIANI KHURD BRANCH (50504), NAWANSHAHR.**

SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
<b>1</b>	<b>COMPUTER POINTS AND DISTRIBUTION - (SUB HEAD-1)</b>				
1.1	Supply all materials, receiving, storing, handling, fixing and laying 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 recessed 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 5 pin modular sockets controlled by 1 no. 5 Amp switch with indicator <b>(to be provided above the table top in partition)</b> connection end terminations with suitable size of glands etc. complete as required. <b>(Only maximum two points can be connected in series with single cable) (Make: Legrand/Crabtree/North West)</b>	14	Each		
	<b>4 points for CM Cabin, 2 points per officer Seat, per Counter , per N/W Rack and for Meeting Room as per the drawing provided.</b>				
1.2	As per item 1 above but with 2 no. 15 amp 3 pin modular sockets controlled by 1 no. 15 amp modular switch with indicator including the cover plate. <b>(For A.T.M Requirement)</b>	5	Each		
1.3	As per item 1 above but with 1 no. 5 amp 5 pin modular sockets controlled by 1 no. 5 amp modular switch including the cover plate. <b>(For T.V on Pillars/ Machines / As per RBO/Branch Requirement)</b>	7	Each		
<b>2</b>	Providing and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug & socket arrangement:				
2.1	25 amp air-conditioning point modular type socket { <b>to be fixed 1.5 foot below false ceiling</b> } with 25 amp DPMCB C SERIES { <b>to be fixed at Normal Height</b> }. <b>As per the Plan provided by the Architect for Split A.C.</b>	4	Each		
2.2	Supply, fixing and testing of following 3 pin metal clad industrial type plug & socket arrangement with plug top cap & chain controlled by 1 No. MCB <b>(Make: Havells/Standard/ Hager/Legrand/L&amp;T)</b> 32 amp air-conditioning point modular type socket { <b>to be fixed 1.5 foot below false ceiling</b> } with 30 amp DPMCB C SERIES { <b>to be fixed at Normal Height</b> }. <b>As per the Plan provided by the Architect for Cassette A.C.</b>	4	Each		
<b>3</b>	<b>CIRCUIT WIRING AND POINT WIRING</b>				
3.1	Circuit wiring from the MCB/MCCB from the Distribution Board to the Switch Board with 2 x 2.5 sq.mm + 1-1.5 sq.mm copper conductor (FRLS) in PVC Conduit concealed/open and making good the damaged surfaces as per direction of the Engineer-in-charge. including the cost of the PVC conduit 2mm thick. <b>At least 9 points of Point Wiring shall required to be connected with single circuit.</b>	12	Each		
3.2	Wiring for light point/ ceiling fan point/ exhaust fan point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit ISI Mark, with 6 Amp modular switch, modular plate, suitable GI junction & switch boxes & clip and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. <b>(Wires Make: Polycab/ KEI/Finolex) (Switches : Make: Legrand/Crabtree/North-West/MK)</b>				
a)	Single 6 Amp Switch controlling 1 light point for T-5, exhaust Fans , Ceiling fan and other seprate room supply only	28	No.		
b)	Single 6 Amp Switch controlling 4 no. downlights / 4 no. LED downlight / 2 no. 2'- 0"x 2'-0" 36 watt light fittings	41	No.		
c)	Single 6 Amp Socket controlling by 5 Amp Modular switch in switch boards etc complete as required	12	No.		
d)	<b>Extension of wall fans:</b> Extension of points with 2 x 1.5 sq.mm. FRLS copper wire + 1x1.0 sq.mm earth wire in suitable dia MS conduit in recess conduit wiring system for wall fan points with modular switches of 6 amp { <b>to be fixed at Normal Height</b> } and 5 amp 5 pin modular sockets { <b>to be fixed 1.5 foot below false ceiling</b> } as per requirement and filling chassis etc complete as reqd.	12	No.		

4a	Supply all material, storing, handling, fixing of <b>Raw power points</b> in suitable size of GI/PVC box including providing 1 no. 15 amps 6 pin modular power sockets controlled by 1 no 15 A moduler type switch and indicator with moduler cover plate etc complete as required including 2X2.5 sq. mm FRLS copper wire + earth wire in dia 2 mm in thickness ISI Mark PVC pipe. (Switches : Make: Anchor/Crabtree/North-West/MK) (Wires Make: Polycab / KEI /Finolex {Maximum Two points to be provided per circuit.}) (to be provide below the tables)	9	Each		
	<b>2 points for BM Cabin, 1 point per seat, 2 for Pantry as per the drawing provided.</b>				
4b	Supply all material, storing, handling, fixing of <b>Raw power points</b> in suitable size of GI/PVC box including providing 1 no. 5 amps 6 pin modular power sockets controlled by 1 no 6 Amp moduler type switch and indicator with moduler cover plate etc complete as required including 2X1.5 sq. mm FRLS copper wire + 1x1.0 sq.mm earth wire in dia 2 mm in thickness ISI Mark PVC pipe. (Switches : Make: Anchor/Crabtree/North-West/ MK) (Wires Make: Polycab / KEI /Finolex (to be provide on top of the tables and one at each seat)	6	Each		
5	Providing & laying following sizes of PVC insulated copper conductor cable of 1100 V in flexible/PVC conduit with accessories such as glands. bends etc.(as per requirement) including making necessary Inter connection etc complete as reqd.				
a)	2 x 6 sq.mm with 1 no. suitable PVC insulated earth wire	30	Per mtr.		
6	Supply Installation, Testing & Commissioning of factory fabricated Double Door IP 43 distribution board rust inhibited, powder coated sheet fabricated comprising of incoming & outgoing isolator & MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts Interconnection and grouting bolts etc complete as require as per details below:-				
a)	8 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 6 no. 6/10amp SPMCB's "C" SERIES. (for the UPS points each DB to be connected to 12 UPS points i.e only two points shall be connected with one MCB) ( 2 for GF + 1 for FF)	3	Each		
b)	4 way TPNDDB comprising of 1 no. 100 amp 4 pole isolator and 4 no. 32 amp DPMCB and 4 no. 16amp SPMCB FOR Raw Power Points (for A.Cs & Power Points). DPMCB must be of C Series. (1st Floor)	1	Each		
c)	4 way TPNDDB comprising of 1 no. 100 amp 4 pole isolator and 6 no. 32 amp DPMCB (for A.Cs ). DPMCB must be of C Series. (Ground Floor)	1	Each		
d)	4 way TPNDDB comprising of 1 no. 63 Ampere TPN MCB "C" Series with 30 mA ELCB and 12 nos. 6/10 amp SPMCB "C" Series. (For Light Point Circuits).	2	Each		
e)	4 way DB comprising of 1 no. 100 amp 4 pole Isolator (for UPS I/C Branch & ATM)	2	Each		
f)	4 way DB comprising of 2 no. 32 amp DPMCB "C " Series .(UPS O/P Branch)	3	Each		
7	Supply, fixing and testing of following 3 pin metal clad industrial type plug & socket arrangement with plug top cap & chain controlled by 1 No. MCB (Make: Havells/Standard/ Hager/Legrand/L&T)				
a)	20/25 amp with 20/25 amp SPMCB { UPS O/G 4 Branch & 2 ATM}	6	No.		
b)	32 amp with 32 amp SPMCB { UPS I/C 3 Branch & 3 ATM}	6	No.		
8	Providing, fixing, testing and commissioning of 15 Amp Power Point modular type socket with 25 amp DPMCB C SERIES along with Plug or the rooms so that the supply is connected only when the plug is inserted in the socket outside the rooms for fire safety. {1 each for Record Rooms , Locker Room & Strong/cash Room }	3	No.		
9	Providing & fixing suitable size of MS box fabricated with 16 S.W.G. M.S. 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 backalite sheet on base connector strip and painting of box etc complete as reqd.	1	Job.		
	<b>TOTAL SUB-HEAD -1</b>				
	<b>PANELS &amp; CABLES - (SUB HEAD-2)</b>				

1	Providing & fixing 3 No. 200 amp kitkats (fuse carrier & base) with 1 no. neutral link on suitable size of bakelite sheet of thickness not less than 6 mm etc. complete as reqd.	1	Job.		
2	<b>MAIN PANEL</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 & outgoing feeder as per details below-				
	<b>INCOMING</b>				
a)	1 no MCCB Breaking Capacity 36 KA, 160 Amp 4P , Model-DU250 Series, <b>L&amp;T/ABB make</b>				
b)	1 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				
c)	1 set of 200 Amps capacity 4 strips Aluminium bus bars chamber				
	<b>OUTGOING</b>				
a)	1 nos 125 Amp 36 KA 4P MCCB, 1 nos 100 Amp 25KA 3P MCCB , 2 nos 63 Amp 25KA 3P, MCCB with seprate neutral Link, DU Series, L&T make.	1	Set		
3	<b>ESSENTIAL PANEL</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 & outgoing feeder as per details below-				
	<b>INCOMING</b>				
a)	125 amp MCCB 4 pole with 36 KA breaking capacity at 415 Volts/ HIGHEST AVAILABLE.				
b)	1 set of 200 amp TPN aluminium busbar chamber				
c)	1 no. 0-500 V Voltmeter with selector switch in a separate compartment and amp meter with selector switch and one set of CTs (3 no.) with CT ratio 200/5 A with LED type indication lamps with protection fuses in a separate compartment				
	<b>OUTGOING</b>				
a)	5 No. 63 AMP 3 pole 25KA MCCB ( <b>MCCB'S WITH 25KA BREAKING CAPACITY at 415 Volts.</b> ) ( For A.C D.B, UPS, Light & Power Points) (seperate link arrangement for three pole MCCBs)	1	Set		
	<b>In Panel for All MCCBs connected the interconnections must be with solid Bus Bar only.</b>				
4	Supply, installation, testing & commissioning of PVC insulated PVC sheathed armored cable of 1100 V (IS-1554 part I) 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 reed. of following sizes:- ( <b>Make: Polycab/ KEI/Finolex</b> )				
a)	3.5 x 70 sq. mm aluminum conductors armoured cable with two Nos. 8 SWG GI wire ( <b>from the mains to the Main Panel</b> )	0	Per mtr.		
b)	3.5 x 50 sq.mm aluminum conductor with two Nos. 8 SWG GI wire ( <b>from themains to main panel, genset to the Change over and from change over to the essential panel, from the Main panel the Change Over.</b> )	50	Per mtr.		

c)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 S.W.G G.I. wire (from Main / Essential panel to the AC DB / Power D.B & UPS I/C )	80	Per mtr.		
d)	3 x 6 sq.mm copper conductor (for UPS room to UPS DBs)	80	Per mtr.		
e)	4 x 10 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.I. wire (from the Essential panel to the Lighting DB , for ATM UPS I/C & 4 WAY TPN I/C)	80	Per mtr.		
5	End termination with Brass compression glands including providing lugs/ferruls and making necessary connections etc. complete as reqd. of following sizes:-				
a)	3.5 X 70 sq.mm aluminum conductor	0	Each		
b)	3.5 X 50 sq.mm aluminum conductor	10	Each		
c)	3.5 X 25 sq.mm aluminum conductor	8	Each		
d)	3 X 6 sq. mm copper conductor	14	Each		
e)	4 X 10 sq. mm aluminium conductor	6	Each		
f)	3 X2.5 sq. mm copper conductor	16	Each		
6	Providing & fixing suitable size of angle iron frame suitable for installation on wall/floor including grouting of frame &painting etc. complete as reqd. comprising of the following: (Make: Havells/HPL/Standard/ Legrand/L&T)				
a)	1 NO.4 pole 200 amp capacity changeover switch.	1	Job.		
7	Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete	2	Sq. mtr.		
<b>TOTAL SUB -HEAD 2</b>					
<b>EARTHING - (SUB HEAD-3)</b>					
1	Supply & fix copper plate earth station with 600x600x3 mm thick copper plate including all accessories such as watering pipe & funnel and providing masonry enclosure at top with cover plate i/c excavation of pit supplying & 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. ( For the Branch UPS )	1	Set		
2	Supply & fix G.I. plate earth station with 600x600x6 mm thick G.I. plate including all accessories such as watering pipe & funnel and providing masonry enclosure at top with cover plate i/c excavation of pit, supplying & filling of charcoal, refilling of pit etc complete as reqd as per IS 3043-1987 (for the neutral earthing from the point of neutral link beside the fuse connection and second for the body earthing conncted to bothe panel body and the ups base panel) [ 1 FOR NUETRAL EARTHING and 1 FOR BODY EARTHING]	2	Set		
<b>Chamber for the earthing shall be available at site without it the earthing cost shall not be paid for all the Earthings. You are also required to provide picture of earthing taken at the time of execution of the same.</b>					
3	Supplying and laying 20 mm X 3 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required	5	Per mtr.		
4	Supplying, fixing & termination of 20 mm X 3 mm GI strip with earth station below ground level and on wall saddle etc complete as reqd.	10	Per mtr.		
5	Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.	30	Per mtr.		
6	Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loop earthing etc. as reqd.	30	Per mtr.		
7	Supply & laying following dia 2 mm in thickness PVC pipe under floor or in recessed walls from earth electrode to UPS room for computer dedicated earthing, for data cabling, electrical cabling etc. including providing 1 no. G.I. pull wire for data cabling making good the damages etc. wherever reqd.				
a)	25mm	85	Per mtr.		
<b>TOTAL SUB-HEAD - 3</b>					
<b>NETWORKING -(SUB HEAD-4)</b>					

1	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.. Furling need to be done for marking of networking cable at both end of the point i.e. in the rack as well as seat.( <b>Make: D-LinK/MOLEX/AMP/COMMSCOPE</b> ).	18	No.		
	<b>3 points for BM Cabin, 2 points per seat, 4 points for ATM as per the drawing provided.</b>				
2	Supply, installation, testing and commissioning of 24-port Patch Panel	1	No.		
3	Supply installation. testing and commissioning of mounted rack 9U height made of powder coated MS sheet.	1	No.		
4	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.				
a)	1 m long	18	No.		
b)	2 m long	10	No.		
5	Wiring for telephone points with 0.6 mm dia 2 pair insulated annealed tinned electrolytic copper conductor in 2 mm thick 25 mm 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>Make: Dglink/KEI/Finolex</b> )	8	No.		
6	Supply, fixing and commissioning of 10 pair tag Block Box i.e FRP/PVC/Metal junction box with KRONE disconnection module necessary tag for identification for the telephone points. (box and strips Krone make)	1	No.		
7	Providing , Laying, testing & commissioning of 10 pair telephone cable from outside govt. / bsnl DB to Rack for lease line, ISDN of <b>Make: Delton, finolex, polycab.</b>	50	Per mtr.		
<b>TOTAL SUB -HEAD 4</b>					
<b>AIR CONDITIONING PIPING WORK - (SUB HEAD-5)</b>					
1	Supplying & Laying of following COPPER REFRIGERANT PIPING Thickness 22 SWG For Hi-wall Split AC complete with fittings Suction / Discharge line insulated with 12 mm SUPERLON / ARMAFLEX/TOTALINE suction line. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.				
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr )	40	Per mtr.		
b)	5/8" + 1/4" Refrigerant Copper piping - For Hiwall Split AC's (2.0Tr )	40	Per mtr.		
c)	6/8" + 3/8" Refrigerant Copper piping - For CASSETTE AC Split AC's (3.0Tr )	10	Per mtr.		
2	Supply and laying following dia 25mm (confirming to ASTM D1785 standard) in thickness, heavy duty PVC pipe with 4mm required insulation under floor or recessed in walls for AC drains, { To nearest To including bends, Tees etc as required complete in all respect ( <b>Make: Diplast/Supreme/Astral</b> ) ( <b>For 2TR</b> )	75	Per mtr.		
3	Supply and laying following dia 32mm (confirming to ASTM D1785 standard) in thickness, heavy duty PVC pipe with 4mm required insulation under floor or recessed in walls for AC drains, { To nearest To including bends, Tees etc as required complete in all respect ( <b>Make: Diplast/Supreme/Astral</b> ) ( <b>For 3TR</b> )	15	Per mtr.		
4	Cutting of floor/wall for laying of refrigerant/drain pipe including making good the damages etc. Complete as required.	135	Per mtr.		
5	Electrical flexible cable of 3 x 2.5sq.mm FRLS Cu cable multi strand suitable for 2 Tr H.W Split & 1.5 Tr H.W Split. From Panel to outdoor unit shall be considered as ONE length for the purpose of measurement and no joint in between is permissible.( <b>Make: Polycab / Havells/Finolex</b> ) ( <b>supply point to outdoor unit</b> )	120	Per mtr.		
	Electrical flexible cable of 3 x 4sq.mm FRLS Cu cable multi strand suitable for 3 Tr Cassette Ac.From Panel to outdoor unit shall be considered as ONE length for the purpose of measurement and no joint in between is permissible.( <b>Make: Polycab/havells/Finolex</b> ) ( <b>supply point to outdoor unit</b> )	20.00	Per mtr.		

	Electrical flexible cable of 4 x 2.5sq.mm FRLS Cu cable multi strand suitable for 1.5Tr, 2 Tr H.W Split & 3.0Tr Cassettee ACs. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for the purpose of measurement.( <b>Make: Polycab /havells/Finolex(indoor to outdoor unit)</b> )	120	Per mtr.		
<b>TOTAL SUB -HEAD 5</b>					
<b>SUPPLY AND INSTALLATION OF FANS AND FIXTURES - (SUB HEAD-6)</b>					
1	SITC of 2"x2" Celing grid 36 watt LED panel fixtures with essential driver in false ceiling including making necessary arrangement for mounting the fixtures and connection with 2 x 1.5 sq.mm insulated copper cable from adjacent point in PVC flexible pipe etc Complete as reqd. <b>Make Philips cat. RC 380 B- LED-30-6500PSE OD WH or equivalent of Wipro / Crompton</b>	20	No.		
2	SITC of 15 watt LED fixtures /dowlighters with essential driver in false ceiling including making necessary arrangement for mounting the fixtures and connection with 2 x 1.5 sq.mm insulated copper cable from adjacent point in PVC flexible pipe etc complete as reqd. <b>Make Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.</b>	60	No.		
3	SITC of 20 watt of 4 feet long T5 LED fixtures directly on ceiling / wall including making necessary connections with 2x1.5 sq.mm insulated copper cable conductor wire etc. complete as reqd <b>Make Phillips cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.</b>	2	No.		
4	Supply of 400/450 mm sweep Metal Body Crompton greaves ( or equivalent) <b>SDX BLCK GOLD / SSTROM 2</b> wall fan etc. 1325 rpm High Flow Model with 2 Pin Plug complete as required. <b>(M/s equivalent of Bajaj / Havells/Usha )</b>	12	No.		
5	LED Strip / profile light ( <b>4.5/5 watt</b> ) for cove (M/s Phillips /Wipro / Bajaj ) Complete in all respects with suitable drivers (warm white & blue colour as per bank's requirement)	25	Per mtr.		
6	SITC of 1200 mm, 32-36W BLDC CEILING fans complete as reqd. (M/s Crompton /atomberg/USHA).	1	No.		
7	SITC of 200 mm BLDC motor exhaust fans complete with self opening metal louvers / shutters including necessary frame etc, complete as reqd. (M/s Atomberg efficio equivalent/Crompton / USHA)	7	No.		
8	SITC of 25 watt LED Street light /Flood light for lighting the front side of the branch (M/s Crompton Cat No. LSTS-25-CDL or equivalent of Philips/Wipro .	3	No.		
9	SITC of Automatic Programmable Time Switch 24 Hour for ATM AC's/ UPS Exhaust fan/Sign Board (Make: L&T or equivalent to Legrand/Havells/Seimens)	3	No.		
<b>TOTAL SUB – HEAD 6</b>					
TOTAL SUB-HEAD-1					
TOTAL SUB-HEAD-2					
TOTAL SUB-HEAD-3					
TOTAL SUB-HEAD-4					
TOTAL SUB-HEAD-5					
TOTAL SUB-HEAD-6					
<b>TOTAL SUB-HEAD- 1-5 - (PART-A)</b>					
<b>TOTAL SUB-HEAD- 6 - (PART-B)</b>					
<b>TOTAL SUB-HEAD- 1-6 (A)</b>					
GST shall be paid extra as applicable					
Seal & Signature of Vendor					