ELECTRICAL WORKS OF STATE BANK OF INDIA, SME BRANCH, PANIPAT (HR)

PRICE BID (ELECTRICAL INSTALLATION)

S.	- Item	Quantity	Units	Rate	Amount
No.					
1	SUB HEAD 1 (COMPUTER POINTS AND DISTRIBUTION)				
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 (to be provided above the table top in partition) connection end terminations with suitable size of glands etc. complete as required. (Only two points can be connected in series with single cable) (Make: Anchor/Crabtree/North West/ REO)	50.00	each		
	4 points for CM Cabin, 2 points per officer, Seat, per Counter, 1 for each Rack as per the inventory plan of the architect.				
2	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(For T.V on Pillars/ Machines / As per branch Requirement)	2.00	each		
	Circuit Wiring and Point Wiring				
3	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 (FR) 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. At least 9 points of Point Wiring shall required to be connected with single circuit.	12.00	Each		
4	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. (Wires Make: Havells/ RR				

	Kable / KEI/Finolex) (Switches : Make:			1	
	,, (
- \	Anchor/Crabtree/North-West/MK)	00.00			
a)	Single 6 Amp Switch controlling 1 light point for T-5,	20.00	no.		
	exhaust Fans , Ceiling fan and other seprate room supply				
L	only	E0 00			
b)	Single 6 Amp Switch controlling Strip Lights / 4 no.	50.00	no.		
	downlights / 4 no. LED downlight / 2 no. 2'- 0"x 2'-0" 36				
\	watt light fittings	1/ 00			
c)	Single 6 Amp Socket controlling by 5 Amp Modular switch	14.00	no.		
	in switch boards etc complete as required				
	Light Points to be calculated by number of lights and no				
	extra cost shall be paid for dummy.				
5	Extension of wall fans:	00.00			
a)	Extension of points with 2 x 1.5 sq.mm. PVC insulated	20.00	no.		
	copper conductor cable in suitable dia MS conduit in recess				
	conduit wiring system for wall fan points with modular				
	switches of 6 amp {to be fixed at Normal Height} and 5				
	amp 5 pin modular sockets { to be fixed 1.5 foot below				
	false ceiling} as per requirement and filling chassis etc				
	complete as reqd.				
6	Supply and Installation of Points for Wiring for power plug	16.00	each		
	point (Raw Power Point) 16A with 2 x 2.5 sq.mm + 1 x				
	1.5sq.mm copper conductors , including the modular				
	switches, sockets and plates Including the cost of 2mm				
	thick PVC conduits. (Switches : Make:				
	Anchor/Crabtree/North-West/ MK) (Wires Make: Havells/				
	RR Kable / KEI /Finolex {Two points to be provided per				
	circuit.}) (2 points per circuit)				
	As per the drawing provided by the Architect.				
7	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	15.00	mtr.		
8	Supply Installation, testing & commissioning of factory				
	fabricated distribution board rust inhibited, powder coated				
	Sheet sheet fabricated comprising of incoming & outgoing				
	isolator & M.C.B's neutral link or neutral bus,top and bottom				
	detachable entry earthing bolts Interconnection and				
	grouting bolts etc complete as reqo. 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	3.00	each	
b)	two points shall be connected with one MCB) 6 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 4 no. 6/10amp SPMCB's "C" SERIES. (for the UPS points each DB to be connected to 08 UPS points i.e only two points shall be connected with one MCB)	2.00	each	
c)	4 way TPNMCBDB Double Door (WATER PROOF TYPE IP66 RATED) in recessed wall including cutting of wall and making good the damages comprising 1 no 63AMP 4-pole TPNMCB and 3 Nos.40 Amp 4-Pole TPNMCB etc complete as required. (for AC OUTDOORS)	1.00	each	
d)	6 Way TPN MCBDB Double Door in recessed wall including cutting of wall and making good the damages comprising 1 no 63 A FP TPN and 2 Nos. 32 A DPMCBS & 14 no. 6A SPMCB etc complete as required. (for AC INDOORS ONLY).	1.00	each	
e)	4 way TPNDB comprising of 1 no. 63 Ampere TPN MCB "C" Series and 12 nos. 16 amp SPMCB "C" Series. (For Raw Power Point Circuits).	1.00	each	
f)	4 way TPNDB 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).	1.00	each	
g)	4 way DB comprising of 1 no. 100 amp 4 pole Isolator (for UPS I/C Branch & ATM)	1.00	each	
h)	4 way DB comprising of 2 no. 32 amp DPMCB "C" Series .(UPS O/P Branch)	2.00	each	
9	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 / HPL/Standard/ Hager/ Legrand/ L&T)			
a)	20/25 amp with 20/25 amp SPMCB { UPS 0/G 4 Branch }	4.00	no.	
b)	32 amp with 32 amp SPMCB { UPS I/C 3 Branch }	3.00	no.	
10	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 Room and Safe Room}	2.00	no.	
11	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	1.00	job	

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	further distribution of earth to computer points including				
	providing 5mm backalite sheet on base connector strip and				
	painting of box etc complete as reqd.				
	TOTAL SUB-HEAD -1				
	SUB HEAD 2 (PANELS & CABLES)				
1	Providing & fixing 3 No. 200 amp kitkats (fuse carrier &	1.00	job		
	base) with 1 no. neutral link on suitable size of backalite				
	sheet of thickness not less than 6 mm etc. complete as				
	reqd.				
2	MAIN PANEL				
	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-				
	INCOMING				
a)	1 no MCCB Breaking Capacity 25 KA 200 Amp 4P , Model-				
	DU250 Series, L&T make				
b)	1 no 0 -500V digital Voltmeter in separate compartment				
	and digital Amp meter and one set of CTs (3 Nos) with				
	CT Ratio 350/5 A with LED type phase Indication Lamps				
	with protection fuses in a separate compartment				
c)	1 set of 250 Amps capacity 4 strips Aluminium bus bars				
	chamber				
	OUTGOING				
a)	1 no. MCCB Breaking Capacity 25 KA 160 Amp 3P, and 1 nos	1.00	set		
	MCCB Breaking Capacity 10KA 100Amp 3P with seprate				
	neutral Link, DU Series, L&T make.				
3	ESSENTIAL PANEL				
	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,				
	volume to the second control of the s			l	

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	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-				
	INCOMING				
a)	160 amp MCCB 4 pole with 35 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				
	OUTGOING				
a)	3 No. 100 AMP 3 pole MCCB , 3 No. 63 AMP 3 pole MCCB	1.00	set		
	(MCCB'S WITH 25KA BREAKING CAPACITY at 415 Volts.) (
	For A, UPS, Light & Power Points)				
	In Panel for All MCCBs connected the interconnections				
	must be with solid Bus Bar only.				
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:- (Make: Havells/ RR				
	Kable / KEI/Finolex/Pymen)				
a)	4 x 25 sq. mm copper conductors with two Nos. 8 SWG GI	80.00	per		
	wire		mtr.		
b)	3.5 x 50 sq.mm aluminum conductor with two Nos. 8 SWG	40.00	per		
	GI wire (from the mains to the Main Panel & from the		mtr.		
	genset to the Change over and from change over to the				
	essential panel)				
c)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 S.W.G	70.00	per		
	G.1. wire (from Essential panel to the UPS I/C, RAW Power		mtr.		
	D.B)				
d)	3 x 6 sq.mm copper conductor (for UPS DB)	60.00	per		
			mtr.		
e)	4 x 10 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.1.	30.00	per		
	wire (from the Essential panel to the Lighting DB)		mtr.		
f)	3 x 2.5 sq.mm. copper conductor.	40.00	per		
			mtr.		
			mtr.		

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5	End termination with Brass compression glands including			
	providing lugs/ferruls and making necessary connections			
	etc. complete as reqd. of following sizes:-			
a)	4 X 25 sq.mm copper conductor	6.00	each	
b)	3.5 X50 sq.mm aluminum conductor	6.00	each	
c)	3.5 X 25 sq.mm aluminum conductor	6.00	each	
d)	3 X6 sq. mm Copper conductor	10.00	each	
e)	4 X 10 sq. mm aluminium conductor	4.00	each	
f)	3 X2.5 sq. mm Copper conductor	20.00	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.	1.00	job	
7	Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also	1.00	sq.mtr.	
	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			
	TOTAL SUB -HEAD 2			
	SUB-HEAD 3 (EARTHING)			
1	Supply & fix copper plate earth station with 600x6000x3	1.00	set	
	mm thick copper plate including all accessories such as			
	watering pipe & funnel and providing masonary 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)			
2	Supply & fix G.I. plate earth station with 600x600x6 mm	2.00	set	
	thick G.I. plate including all accessories such as watering			
	pipe & funnel and providing masonary enclosure at top			
	with cover plate i/c excavation of pit, supplying & filling			
	of charcoal, refilling of pit etc complete as regd 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 connceted to bothe panel body and the ups			
	base panel) [1 FOR NUETRAL EARTHING and 1 FOR BODY			
	EARTHING]			
	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.			
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3	Supplying and laying 20 mm X 3 mm copper strip at 0.50	5.00	per		
"	meter below ground as strip earth electrode, including	3.00	mtr.		
	connection/ terminating with nut, bolt, spring, washer etc.		11161.		
	as required				
4	Supplying, fixing & termination of 20 mm X 3 mm GI strip	10.00	nor		
4		10.00	per		
	with earth station below ground level and on wall saddle		mtr.		
	etc complete as reqd.	F0.00			
5	Providing & fixing 8 S.W.G Copper earth wire on surface or	50.00	per		
	in recess for loop earthing etc. as reqd.		mtr.		
6	Providing & fixing 8 S.W.G G.I. earth wire on surface or in	70.00	per		
	recess for loop earthing etc. as reqd.		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	80.00	per		
			mtr.		
	TOTAL SUB-HEAD - 3				
	SUB HEAD 4 (NETWORKING)				
1	Wiring for computer networking starting from mounting rack	46.00	no.		
	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.(Make: D-LinK/MOLEX/AMP/COMMSCOPE).				
	3 points for BM Cabin, 2 points per seat, 6 points for ATM				
	as per the drawing provided.				
2	Supply, installation, testing and commissioning of 24-port	2.00	no.		
	Patch Panel				
3	Supply installation, testing and commissioning of	2.00	no.		
	mounted rack 12U height made of powder coated MS sheet.	2.00			
	mounted rack 126 holynt made of powder coated no choos.				
4	Supply, fixing and commissioning of patch cable Cat-6				
	complete with 2 no. connectors etc. complete as reqd.				
a)	2m long	23.00	no.		
b)	1m long	46.00	no.		
5	Wiring for telephone points with 0.6 mm dia 2 pair insulated	20.00	no.		
	annealed tinned electrolatic copper conductor in 2 mm				
	thick 25 mm dia ISI marked PVC conduit complete with				
	accessories such as bends, junction boxes etc. with				
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	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. (Make:			
	Dglink/KEI/Finolex)			
6	Supply, fixing and commissioning of 20 pair tag Block Box	1.00	no.	
	i.e FRP/PVC/Metal junction box with KRONE disconnection			
	module necessary tag for identification for the telephone			
	points. (box and strips Krone make)			
7	Providing , Laying, testing & commisioning of 20 pair	30.00	per	
	telephone cable from outside govt. / bsnl DB to Rack for		mtr.	
	lease line, ISDN of Make: Delton, finolex, polycab.			
	TOTAL SUB -HEAD 4			
	SUB HEAD 5 (SUPPLY AND INSTALLATION OF FANS AND			
	FIXTURES)			
1	SITC of 2"x2" Celing grid 33-36 watt LED panel fixtures	44.00	no.	
	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.			
	Make Philips cat. RC 380 B- LED-30-6500PSE OD WH or			
	equivalent of Wipro / Bajaj.			
2	SITC of 15 watt LED fixtures /dowlighters with essential	26.00	no.	
	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. Make Phillips			
	cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.			
	SITC of 9 watt LED fixtures /dowlighters with essential	12.00	no.	
	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. Make Phillips			
	cat no. DN - 192 - 1000 or equivalent of Wipro / Bajaj.			
3	SITC of 5 watt recess mounted LED spotlight with	8.00	no.	
	assembly complete with including making necessary 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. (Make : Philips/Wipro/ Bajaj)			
4	SITC of 18 watt of 4 feet long T5 LED fixtures directly on	8.00	no.	
	ceiling / wall including making necessary connections with	3.00		
	2x1.5 sq.mm insulated copper cable conductor wire etc.			
<u> </u>	EXTIG Sq.mm modiated copper capie conductor wife etc.			

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	complete as reqd Make Phillips cat no. DN - 192 - 1000 or			
	equivalent of Wipro / Bajaj.			
5	Supply of 450 mm sweep Metal Body Crompton greaves (15.00	no.	
	or equivalent) SDX BLCK GOLD / SSTROM 2 wall fan etc. 1325			
	rpm High Flow Model with 2 Pin Plug complete as required.			
	(M/s equivalent of Bajaj / Havells/Usha)			
6	LED Strip / profile light (4.5/5 watt) for cove (M/s Phillips	30.00	per	
	/Wipro / Bajaj) Complete in all respects with suitable		mtr.	
	drivers			
7	SITC of 1200 mm CEILING fans complete as reqd. (M/s	2.00	no.	
	Crompton High Breeze or equivalent of USHA / Bajaj).			
8	SITC of 200 mm exhaust fans complete with self opening	4.00	no.	
	louvers / shutters including necessary frame etc,			
	complete as reqd. (M/s Crompton High Breeze or equivalent			
	of USHA / Bajaj)			
9	SITC of Automatic Programmable Time Switch 24 Hour for	1.00	no.	
	ATM AC's (Make: L&T or equivelent to			
	Legrand/Havells/Seimens)			
	TOTAL SUB - HEAD 5			
	SUMMARY:			
	TOTAL SUB-HEAD-1			
	TOTAL SUB-HEAD-2			
	TOTAL SUB-HEAD-3			
	TOTAL SUB-HEAD-4			
	TOTAL SUB-HEAD-5			
	TOTAL AMOUNT (1 TO 5)			
Amo	unt in Words:			