$N.O.W.-ELECTRICAL\ WORKS\ OF\ STATE\ BANK\ OF\ INDIA, BRANCH\ AT\ RACC\ PANIPAT, RBO\ PANIPAT, HARYANA.$

PRICE BID FOR THE (ELECTRICAL INSTALLATION)

S. No.	Item	Quantity	Units	Rate	Amount
1.1	SUB HEAD 1 (COMPUTER POINTS AND DISTRIBUTION) Supply all materials, receiving, storing, handling, fixing and laying 3 x 2.5 sq.mm PVC insulated				
1	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/ Legrand / L& T / Gold Metal/ REO)	28.00	each		
	4 points for CM Cabin, 2 points per Manager Seat, 2 point per Counter, 2 per N/W Rack as				
2	per the drawing provided & 4 Points for Meeting Room 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 / Premium Customer Lounge)	4.00	each		
3	Providing and fixing, testing and commissioning of Heavy Duty modular air-conditioning plug &	4.00	cacii		
	socket arrangement(Make: Anchor/Crabtree/North West/Legrand / L& T / GoldMetal/ REO)				
3.1	25 amp air-conditioning point modular type socket { to be fixed 1.5 foot below false ceiling } with	1.00			
4	25 amp DPMCB C SERIES { to be fixed at Normal Height }. Supply, installation, testing and commissioning of following capacity 3 pin metal clad industrial	1.00	each		
7	type plug and socket arrangement with plug top, cap and chain controlled by under noted capacity:				
	(Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian)				
4.1	32 Amp Socket with 32 Amp. DP MCB "C" Series for A.Cs (for 2.0 TR Cassette AC's)	5.00	each		
	As per the Plan provided by the Architect for Split A.C.	5.00	each		
5	Point Wiring				
5.1	Wiring for light point/ ceiling fan point/ exhaust fan point with 2 x 1.5 sq.mm FRLS PVC insulated				
3.1	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 / Polycab) (Switches Make:				
a)	Single 6 Amp Switch controlling 1 light point for T-5, exhaust Fans, Ceiling fan and other separate	26.00			
b)	room supply only Single 6 Amp Switch controlling 4 no. LED downlight / 2 no. 2'- 0" x 2'-0" 36 watt light fittings	26.00	no.		
		40.00	no.		
c)	Single 6 Amp Socket controlling by 5 Amp Modular switch in switch boards etc complete as required				
-	Extension of wall fans / points:	10.00	no.		
d)	Extension of wan rans / points: Extension as per item 5.1 of points with 2 x 1.5 sq.mm. PVC insulated copper conductor FRLS				
(a)	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 to 2.0 foot below false ceiling} as per requirement and filling chassis etc complete as reqd.				
6	Circuit Wiring:	14.00	no.		
	Circuit wiring from the MCB/MCCB from the Distribution Board to the Switch Board with 2 x 2.5				
a)	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. At least 9 points of Point Wiring shall required to be connected with single				
7	circuit. (Wires Make: Havells / RR Kable / KEI/ Finolex / Polycab)	10.00	each		
7	Supply all material, storing, handling, fixing of Raw power points 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 + 1-1.5 sq.mm earth wire in dia 2 mm in thickness ISI Mark PVC pipe.				
	(Switches Make: Anchor/Crabtree/North-West/ Legrand/ L& T / GoldMetal/REO) (Wires	16.00			
	Make: Havells/ RR Kable / KEI /Finolex / Polycab) {Two points to be provided per 2 points for BM Cabin, 1 point per Counter, 1 in Meeting Room, 2 for Pantry as per the	16.00	each		
	drawing provided. Extra points only as per requirement.				
	Maximum 3 Circuits of (Phase Nuetral Earth) should run through single PVC Pipe Conduit.				
0	Draviding & laving following sizes of DVC involved and the state of th				
8	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.		
9	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:-				
9)	12 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 10 no. 6/10amp SPMCB's				
a)	"C" SERIES. (for the UPS points each DB to be connected to 20 UPS points i.e only two points				
	shall be connected with one MCB)	1.00	each		
b)	8 way MCBDB comprising of 1 no. 63 amp DPMCB "C"Series and 6 no. 6/10amp SPMCB's "C"	2.50			
	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)	1.00	each		
c)	6 way MCBDB comprising of 1 no. 32 amp DPMCB "C"Series and 4 no. 6/10amp SPMCB's "C" SERIES. (for the UPS points each DB to be connected to 8 UPS points i.e only two points shall				
	be connected with one MCB) (UPS O/P)	0.00	each		
d)	4 way TPNDB comprising of 1 no. 100 amp 4 pole isolator and 6 no. 32 amp DPMCB (for Branch				
<u> </u>	/ ATM A.Cs). DPMCB must be of C Series.	1.00	each		
e)	4 way TPNDB comprising of 1 no. 63 Ampere TPN MCB "C" Series and 12 no. 16 amp DPMCB	1.00	1		
	"C" Series. (For Power Point Circuits).	1.00	each		1

S. No.	Item	Quantity	Units	Rate	Amount
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)	1.00	each		
h)	4 way DB comprising of 2 no. 32 amp DPMCB "C" Series .(UPS O/P Branch)	2.00	each		
10	Supply, fixing and testing of following 3 pin metal clad industrial type plug & socket arrangement				
	with plug top cap & chain controlled by 1 No. MCBof following Ratings. (Make: Havells/Standard/				
>	Hager/Legrand/Lauritz Knudsen / Indoasian)				
a)	20/25 amp Socket with 20/25 amp SPMCB "C" Series { UPS O/G 4 Branch }	4.00	no.		
b)	32 amp Socket with 32 amp SPMCB "C" Series { UPS I/C 3 Branch }	3.00	no.		
11	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, Cash, Store Room }(Make: Anchor/Crabtree/North West/ Legrand / L& T / GoldMetal/ REO)				
	Room (Wake, Anchor/Crabitee/With West Degrand / Ext 1 / Goldsvetal/REO)	2.00	no.		
12	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 backlite sheet on base connector strip and				
	painting of box etc complete as reqd.	1.00	job		
	TOTAL SUB-HEAD -1				
	SUB HEAD 2 (PANELS & CABLES)				
1	Providing & fixing 3 No. 200 amp kitkats (fuse carrier & base) with 1 no. neutral link on suitable				
	size of backalite sheet of thickness not less than 6 mm etc. complete as reqd.	1.00	job		
	In Panel for All MCCBs connected the interconnections must be with solid Bus Bar only.				
2.1	(Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian)				
2.1	EMERGENCY PANEL: Supply at site installation testing and commissioning of panel fabricated with 16 G MS sheet. The panel shall be free standing type totally enclosed dust and vermin proof				
	construction with rubber gaskets. The floor mounting panel shall have ISMC mounting channels, GI				
	earth busbar, busbar chamber ,cable alleys interconnection with solid bar/PVC insulated copper				
	conductor as per requirement, and suitable supports of busbars. The panel shall be painted with two				
	coats of enamel paint (Grey shade) over primer and shall also be provided with designation of				
	INCOMING				
	1 no MCCB Breaking Capacity 25 KA 160 Amp 4P, L&T make				
	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	1.00	set		
	200 Amps capacity 4 strips Aluminium bus bars.				
	OUTGOING				
	3 nos MCCB Breaking Capacity 10 KA 100 Amp 3P and 2 nos MCCB Breaking Capacity 10 KA 63 Amp 3P with separate neutral Link, L&T make.				
3	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				
<u></u>	reed of following sizes: (Make: Havells/ RR Kahle / KFI/Finaley/Polycah)				
a)	3.5 x 50 sq.mm. aluminium conductor with 2 no. 8 S.WG. G.1. wire (from the Mains to the				
	Change Over and from the Genset to the Change over and from change over to the Essential panel I/C)		per mtr.		
b)	3.5 x 25 sq.mm. aluminium conductor with 2 no. 8 S.W.G G.1. wire (from Essential panel to the				
	AC DB, UPS I/C, Power D.B)	100.00	per mtr.		
c)	3 x 6 sq.mm copper conductor (for UPS DB)	60.00	per mtr.		
d)	4 x 10 sq.mm. aluminium conductor with 1 no. 8 S.W.G. G.1. wire (from the Essential panel to	20.00			
-	the Lighting DB)	30.00	per mtr.		
e)	3 x 2.5 sq.mm. copper conductor (for the Air-conditioning wiring from 4way TPNDB to A.C Socket & Casseete A.C Outdoor Unit from Panel)	120.00	per mtr.		
	poener & chapter the Outdoor Chit from Fanety	120.00	per mu.		

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S. No.	Item End termination with Brass compression glands including providing lugs/ferruls and making	Quantity	Units	Rate	Amount
	necessary connections etc. complete as reqd. of following sizes:-				
	3.5 x 50 sq.mm. aluminium conductor	6.00			
b)	3.5 X 25 sq.mm aluminum conductor				
	3 X 6 sq. mm Copper conductor				
	4 X 10 sq. mm aluminium conductor				
	*				
	3 X 2.5 sq. mm Copper conductor	22.00	each		
5	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: These makes are for COS only. (Make: Havells/Standard/ Hager/Legrand/Lauritz Knudsen / Indoasian/HPL)				
a)	1 NO.4 pole 160 amp capacity changeover switch.	1.00	1.4		
	Providing & fixing 16 S.W.G.M.S.sheet adaptor box, and also base frame for installation of	1.00	jou		
	M.C.B.D.B.s plug & socket arrangement and to cover cables in system room including painting etc. complete	2.00	sq.mtr.		
	TOTAL SUB-HEAD 2	8.00 each			
	SUB-HEAD 3 (EARTHING)				
1	Supply & fix copper plate earth station with 600x6000x3 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)	1.00	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 masonary 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 connected to bothe panel body and the ups base panel) [1st	2.00	set		
	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.				
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	5.00	per mtr.		
	Supplying, fixing & termination of 20 mm X 3 mm GI strip with earth station below ground level and on wall saddle etc complete as read.				
5	Providing & fixing 8 S.W.G Copper earth wire on surface or in recess for loop earthing etc. as reqd.		,		
		50.00	per mtr.		
6	Providing & fixing 8 S.W.G G.I. earth wire on surface or in recess for loop earthing etc. as reqd.	100.00			
	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.	100.00	per mu.		
a)	25mm	100.00			
	TOTAL SUB-HEAD - 3	100.00	per mtr.		
	SUB HEAD 4 (NETWORKING)				
	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	24 00	no		
	3 points for BM Cabin, 2 points per Manager Seat, 2 point per Counter, 3 for Meeting	200			
	Room & 2 in Lounge As per the drawing provided. Maximum 6 Data Cables can run in Single Conduit.				
	Supply, installation, testing and commissioning of 24-port Patch Panel	1.00	no.		
3	Supply installation, testing and commissioning of mounted rack 12U height made of powder coated MS sheet including punching / laying networking wires complete.	1.00	no.		
	Supply, fixing and commissioning of patch cable Cat-6 complete with 2 no. connectors etc. complete as reqd.				
	1m long		no.		
_	2 m long	12.00	no.		
	Wiring for telephone points with 0.6 mm dia 2 pair insulated 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 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	13.00	no.		
	Supply, fixing and commissioning of 20 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 string Krone model)				
7	strips Krone make) Supply, fixing and commissioning of cable Cat-6 complete with 2 no. connectors or as required etc.	1.00	по.		
	Complete in 2 mm thick 25mm dia ISI mark PVC conduit with accessories such as bends, junction				
	boxes including providing.	60.00	per mtr.		
8	Providing , Laying, testing & commissioning of 10 pair telephone cable from outside govt. / bsnl				
	DB to Rack for lease line, ISDN of Make: Delton, finolex, polycab.	60.00	per mtr.		
1	TOTAL SUB-HEAD 4	1			

No.	Item	Quantity	Units	Rate	Amoun
	SUB-HEAD 5 (AIR CONDITIONING PIPING WORK)				
	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 /				
1	ARMAFLEX suction line. Multi-runs between Indoor & Outdoor units shall be considered as ONE				
	length for the purpose of measurement. Make- Totaline/Armacell				
a)	1/4" + 1/2" Refrigerant Copper piping - For Hiwall Split AC's (1.0Tr / 1.5Tr)	40.00	per mtr.		
a)	5/8" + 3/8" Refrigerant Copper piping - For Hiwall Split AC's (2.0Tr / 3.0 Tr)				
	1 1 1 1	90.00	per mtr.		
2	Supply and laying following dia 3.38mm (confirming to ASTM D1785 standard) in thickness,				
	heavy duty PVC pipe under floor or recessed in walls for AC drains, {To nearest To including				
	bends, Tees etc as required complete in all respect - (size 25 mm / 32 mm dia.) (Make:				
	Diplast/Supreme)	80.00	per mtr.		
3	Cutting of floor/wall for laying of refrigerant/drain pipe including making good the damages etc.				
	Complete as required.	50.00	per mtr.		
4	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. Multi-runs between Indoor & Outdoor units shall be considered as ONE length				
	for the purpose of measurement.(Make: Havells/ RR Kable / KEI/Finolex/Polycab)	50.00	per mtr.		
5	Electrical flexible cable of 4 x 2.5sq.mm FRLS Cu cable multi strand suitable for 2 Tr H.W Split &	20.00	per mar.		
-	3 Tr H.W Split. Multi-runs between Indoor & Outdoor units shall be considered as ONE length for				
	the purpose of measurement. (Make: Havells/ RR Kable / KEI/Finolex/Polycab)	120.00			
6	* * /	120.00	per mtr.		
0	Supplying & Laying of insulation with 13 mm thickness on the Drain Pipe for Cassette A.C in				
	False Ceiling area Only.	30.00	per mtr.		
	TOTAL SUB-HEAD 5				
	SUB HEAD 6 (SUPPLY AND INSTALLATION OF FANS AND FIXTURES)				
1	CITC CONOUNCE 11 22 26 HOLED 1 CH 24 HOLED 1 CH 27				
ı	SITC of 2"x2" Celing grid 33-36 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. Make				
	Philips cat. RC 380 B- LED-30-6500PSE OD WH or equivalent of Wipro / Crompton / Bajaj/Havells).	37.00	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. Make Phillips cat no.				
	DN - 192 - 1000 or equivalent of Wipro / Crompton / Bajaj/Havells).	26.00	no.		
3	SITC of 8 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. Make Phillips cat no.				
	DN - 192 - 1000 or equivalent of Wipro / Crompton / Bajaj/Havells).	6.00	no.		
4	SITC of 18 watt of T5 LED fixtures directly on ceiling / wall including making necessary				
	connections with 2x1.5 sq.mm insulated copper cable conductor wire etc. complete as regd Make				
	Phillips or equivalent of Wipro / Crompton/ Bajaj/Havells).	18.00	no.		
5	Supply of 450 mm sweep Metal Body Crompton greaves (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				
	Crompton / Havells / Usha / Orient)	10.00	no.		
6	LED Strip light (5 watt / metre & 60 LED / metre) for cove (M/s Phillips /Crompton /Wipro /				
	Bajaj/ Havells) Complete in all respects with suitable drivers. (Warm White).	80.00	per mtr.		
7	SITC of 1200 mm CEILING fans complete as reqd. (M/s Crompton High Breeze or equivalent of				
	USHA / Crompton / Orient / Khaitan) with regulator to be provided in Switch Board.				
	. , , , , , , , , , , , , , , , , , , ,	2.00	no.		
8	SITC of 200 mm exhaust fans complete with self opening louvers / shutters including necessary				
	frame etc, complete as reqd. (M/s Crompton High Breeze or equivalent of USHA / Crompton /				
	Orient / Khaitan)	4.00	no.		
	TOTAL SUB – HEAD 6	00	110.		
	101111111111111111111111111111111111111				
	TOTAL SUB-HEAD-1				
	TOTAL SUB-HEAD-2				
	TOTAL SUB-HEAD-3				
					-
	TOTAL SUB-HEAD-4				-
	TOTAL SUB-HEAD-5				
	TOTAL SUB-HEAD-6				
	TOTAL SUB-HEAD-6 TOTAL SUB-HEAD-1-6 GST shall be paid extra as applicable				