	BOQ OF ELECTRICAL WORK IN PHULERA BRANCH						
No.	Particular	Qty	Units	Rates	Amount		
	ELECTRICAL WORK:-						
	General Notes:-						
a)	Rates to include all scaffolding, carriage of materials to and from the site in lead of b	eyond 5 k	ms, and wo	king in a runni	ng branch premises.		
b)	Wire Routing provided through the walls / floor / roof etc., rates to include cutting of wall and refinishing the same finely complete.						
	Points include complete length of wiring, conduiting and accessories upto designated	l places as	per the desi	gn and drawin	gs.		
d)	Electrical contractor shall have to make the layout for cutting of lights etc. at site.						
e)	All newly done electrical wiring/DB/points/ earthing etc. will be used as per instruct	ions of ar	chitect/ engi	neer.			
	LIGHT & FAN POINTS:-						
	P & F light points, fan points, call bell points, sockets etc. with 2 X 1.5 sq. mm. PVC insulated 1100 V grade FRLS, copper conductor wires and 1.0 sq. mm copper earth wire in concealed / surface using ISI mark CPVC pipes of 25 mm dia 1.50mm thick conduits accessories such as bends, tees saddles, draw boxes, mounting boxes, innerplates, cover plates, ceiling rose etc. (where ever required) and plug etc. The circuit wiring starting from DB to point control box / switch box using 2 X 2.5 sq. mm and 1.5 sq. mm earthing PVC insulated wiring color code to be provided. Identification ferrules at both end to be provided. (Flexible conduit / elbow NOT allowed). The conduits to be fixed in ceiling with proper clamps / wall / floor and felling the chase with cement mortar and finish the same in original form / wooden partition / above false ceiling with proper clamps (Wherever required as per standard specifications)						
	SWITCH & SOCKET - NORTH WEST (PC Plus)/ MK (Wrap around)/Anchor (Wood)/Havells (Crabtree)/ABB(Classic Luminia)/legrand Steel Conduit:- AKG/BEC/JINDAL/STEEL KRAFT						
	Notes:-						
	All wires shall be FRLS only (Polycab/RR/Finolex/KEI)						
	All material shall be approved make as mentioned in the tender.						
	Color codes must be maintained						
	No flexible conduit & elbows will be allowed.						
	Each circuit shall have independent earth wire.						
	Each point must be seperataly earthed.						
	Circuit wiring is to be included in point wiring rates.						
	One S.B. can have max. 10-12 switch including 6 Amp. Socket						
	Boxes fixed in the wooden/ plywood partitions may be PVC						
(a)	One point controlled by one 6 Amp. Modular switch & switch board at SB level	Nos.	15				
(b)	Two points controlled by one 6 Amp. Modular switch & switch board at SB level	Nos.	15				
	Exhaust Fan/Wall fan point controlled by one 6 Amp. Modular switch & switch board at SB level and 6 Amp. 3 pin socket at designed place.	Nos.	13				
(d)	6 Amp. Socket with switch & light indicator at switch board places.	Nos.	5				
(e)	Call bell point with anchor make Ding Dong Bell	Nos.	1				
(f)	Emergency points	Nos.	6				
(g)	Strong room point with metallic switch & socket (Industrial plug) with 25 amps MCB. Rates to include all connections with extension cable as required on site.	Nos.	1				
2.	POWER POINTS :-						
(a)	Same as item no. 1, including providing & fixing 16 Amp. 6 pin sockets with 16 amps switch with wiring by using 2x4 sq. mm PVC insulated copper conductor wire with independent 2.5 sq. mm earth wire from D. B. to first 1st socket and 1st socket to 2nd socket with 2.5 sq. mm and 1.5 sq. mm earth wire including providing and Fixing complete in all respects. Power point (Direct) with 2x 4.0 sq mm copper conductor wires.	Nos.	4				
(a)	Tower point (Direct) with 2x 4.0 sq min copper conductor wites.	1105.	-				

2	A. C. DOINTS . C. S. S. Havelle / Lagrand / U.D. / A.D.D.			
3.	A. C. POINTS: - C&S/Havells/Legrand/HPL/ABB A.C. point wiring with 2 X 4.00 sq. mm insulated copper conductor wire (FRLS) &	Nos.	6	
	1 X 2.5 sq. mm copper conductor wire for earthing from AC DB to AC point in 16	INOS.	0	
	swg PVC conduit AC point including supplying and fixing of module A.C. Box			
	with 3 Pin metal clad pin top and 25/32 Amp. SP MCB "C" series. (Wiring must			
	be from DB to stablizer to MCB near indoor unit to Indoor Unit.)			
	be from DB to stabilizer to MCB hear indoor unit to indoor Cint.)			
4.	DISTRIBUTION BOARDS :-			
	P & F sheet metal distribution boards of approved make double door type and			
	making necessary connections etc complete with all MCBs of C series 10 KA.			
	(LEGRAND/ SCHNEIDER/ SIEMENS/C&S/HPL)			
	All MCB`S must be 'C' series, 10 KA			
a	T P N 4 WAY DB :- (For Lighting)	Nos.	1	
	Having Incomer: 40 Amp. 4-P MCB			
	OUT GOING: 10 Amp. SP MCB - 12 NOS			
b	TPN4WAYDB:-(For Power/AC)	Nos.	1	
	Having Incomer: 63 Amp. 4-P MCB			
С	S P N 6 WAY DB :- UPS output	Nos.	1	
	SP MCB 16 Amp = 4 Nos. DP MCB 63 Amp = 1 NOS.			
d	(i) Supply and fixing 4 way DB 2 Nos. 40 DPMCB for Branch UPS input	Nos.	1	
	(ii) Supply & fixing 4 way SPN with DB MCB as incomer for ATM UPS input &	Nos.	1	
L_	output			
	(iii) Supply & fixing 4 way SPN with DB MCB as incomer for inverter input &	Nos.	1	
	output			
5.	LIGHT & FAN FIXTURES :-			
	P & F light fixture & accessories as per the following details and making			
	connections, assembling, fixing, testing & installation with 3 years warranty.			
	Following Fixtures including all accessories & extension chords as maybe			
	necessary complete. All CFL / Flurescent fixtures (except down lighters) to be hung			
	from the RCC ceiling by sitable chain / rods) all to fixture rates to include 3 years			
	warranty. Including all removing, shifting, repairing, fixing, welding, cutting,			
	instalation, testing, commissioning work of existing or proposed items for the			
	following work. Including making good, proper finish of walls, floor and roof with			
	masonary, R.C.C., plaster, pop, puty, primer, paint, etc. complete in all respects.			
	Including color temp. for light fixtures must be 6500k. Dealer authorisation			
	certificate with invoice detail required. Technical specification minimum 100			
	lumens per watt, Pf>.90, THD<20%			
(a)	Philips RC 380B LED Full glow 24" X 24" (6500K) 36 Watt	Nos.	14	
	/BAJAJ/OSRAM/HAVELLS			
(b)	Philips Green LEDi 15 Watt DN 194 B (6500K) /BAJAJ/OSRAM/HAVELLS/HPL	Nos.	20	
	DI 'I' - LED T. L. 1. 1. 10 W/ 22 W/ (500W) /DATA 1/00D AMILAMENTO (170)	N		
(c)	Philips LED Tube lights 18 W/ 22 W (6500K) /BAJAJ/OSRAM/HAVELLS/HPL	Nos.	6	
(d)	BLDC Wall fan 400 mm - Crompton/Atomberg High flow of capacitor start, three	Nos.	8	
(u)	speed wall mounting/cabin fan of following sweep with the help of anchor bolts	1105.	0	
	including making connection testing etc. as required. Each wall fan should be			
	connected through independent switch and socket of 6Amp.(Crompton/ Almonard/			
	Usha/ Havells)			
(e)	Exhaust fan 300 mm - Crompton/ Atomonard of Heavy duty capacitor start 1400	Nos.	3	
	RPM single phase ISI marked Exhaust fan, IS:2312 marked including making			
	opening if required, making connections testing etc. as required.(Crompton/			
L	Almonard/ Usha/ Havells)	<u> </u>	<u> </u>	
(f)	P&F of ceiling BLDC Fan Metal body 1200 mm Sweep (Crompton/ USHA/ Bajaj)	Nos.	2	
	CARLEG WIDEG			
6.	CABLES WIRES:-			
	P & L heavy duty armored cable on saddles wherever exposed and with aluminium			
	lugs, cable termination with gland, aluminium lugs properly crimped, etc. complete.			
	Including reusing of the existing cables wherever required as per direction of Bank			
	Engineer/ Architect, vendor is bound to execute the items. All existing and proposed cables to be lay out in existing cable tray. Complete in all respects as per			
	direction of Bank/ Architect.			
	anceron of Bank/ Architect.			
				1

			1	,	1
	XLPE Cable (Polycab/ Finolex/ RR/KEI)				
a	3.50 core X 35 sq. mm Al. armoured cable with 2 X 8 SWG G.I. wire in PVC	Rmts.	20		
	conduit for earthing including cables termination with gland, Al. lugs properly				
	crimped of required size.				
ь	4.0 core X 10 sq. mm Aluminium Armoured cable for UPS to UPS DB including	Rmts.	30		
	cables termination with gland, Al. lugs properly crimped of required size. (UPS	Turnor	50		
	OUTPUT TO UPS DB) & (UPS INPUT TO UPS DB)				
_	LID G DOLLEG A CID CHIEG				
7.	U.P.S. POINTS & CIRCUITS :-				
	P & F ups points in 2 mm thick PVC conduit with 2 X 2.5 sq. mm insulated copper				
	wire along with 1 X 1.5 sq. mm PVC insulated wire for earthing including bends,				
	nipples, junction, M.S. switch boxes each to have 3 nos. 6 A 5 pin modular socket				
	1 X 6 A indicator controlled by 1 X 16 A modular type switch compl fine finish				
	incl. making necessary connection & start of equipment as per details. Complete in				
	all respects as per direction of Engineer/ Architect. Make as specified above)				
	an respect as per uncover or Engineer received as specifical accite)				
(a)	DIRECT POINT	Nos.	8		
(a)	LOOP POINT (Only one point to be loop.)	Nos.	4		
(a)	LOOT TOTAL (Only one point to be loop.)	1103.	7	 	
8.	EARTHING:- (Ashlok, JK, Ash, REIL)				
(a)	Supply and installation of pipe-in-pipe technology Copper Earth Electrode earthing	Nos.	3		
	system modelt-39 with outer diameter of 80 mm length 2000 mm embedded in the				
	soil with masonary inspection pit along with cover etc. complete in all respect. The				
	work should be got carried out through bank's authorized Company only.				
	Each pit installation test certificate to be submitted after measurement of				
	earth resistances as per the provision in IS 3043				
	Cartiff esistances as per the provision in 13 3043				
(b)	P & L 2 X 8 SWg copper earth wire at designated place in PVC conduit (Pit to	Mtrs.	40		
	Panel/ Pit to UPS)				
9	MAIN PANEL FOR BRANCH :-				
	Designing manufacturing, installing, testing and commissioning of cubical type	Nos.	1		
	MAIN PANEL made from 16 SWG CRCA sheet steel, "type base M.S. channel for	1105.	•		
	grouting on floor complete with MCCB, MCBs, meters, C.T., etc. complete in all				
	respect, insulated bus bar with near shrinkable PVC sleeve in suitable bus bar				
	chamber, wiring, name plates, danger plates, earth bus etc. & comprising of				
	compartments with hinged doors and rubber gasket, bus bar chabmer with bolted				
	door and rubber gasket etc. the panel being of dust & vermin proof construction				
	and to be painted with primer and smoke gray paint (minimum two coats) to look				
	attractive. The panel should be comprising with the following: (Degree of				
	Dratection ID 5/1)				
	INCOMER: -				
	ALL MCCB SHOULD HAVE 25 KA SHORT CIRCUIT CURRENT				
	CAPACITY (C- CLASS) (Legrand/ HPL/ C&S/siemens/ABB/ Schneider)				
(i)	150 Amp 4 - P, MCCB (3 Phase) 1 Nos.				
(ii)	250 Amp. Capacity aluminum bus bar for ATM & system room heat shrinkable				
	proper insulation with heat shrinkable proper insulation with color coded. Analog				
1	ammeter and voltmeter with selector switches three number indicating lamp R-Y-B				
1	Phase indicators with 2 amp. back up HRC fuses & Energy Meter with KWH and				
1	PF indication (Back up Fuse protection)				
L	, , , , , , , , , , , , , , , , , , ,				
	OUT GOING : -				
	ALL MCCB SHOULD HAVE 25 KA SHORT CIRCUIT CURRENT				
	CAPACITY				
	DOUBLE BUS BAR PANEL				
	A.C. SHOULD NOT OPERATE ON INVERTER SUPPLY				
	All MCCB must have 25 KA S.C. current capacity				
				1	+
	All outgoing feeder should have separate door and compartment.				
	Each outgoing feeder shall be with indicator.				
(i)	100 Amp 4 - P, MCCB (3 Phase) 1 Nos. (A.C.)				
(ii)	63 Amp 4 - P, MCCB (3 Phase) 3 Nos.				
	(Power, light. A.T.M., UPS)				
	r , ,				1

10	TELEPHONE POINTS			
b	S, L, T, I, C Telephone point with cat 6 cable telephone cable from main supply to various counters, tables, walls, partitions, etc.with colour coading identification on both ends. Including 0.6 mm dia annealed with tinned screen protected CU conductor PCC sheathed 2 pair telephone cable in PVC conduit 2.00 mm thk. conduit as required. Including S & F modular type plate with telephone outlet box and RJ-11 sockets with housed in zinc passivated box/ PVC box with suitable connector strip in reseced wall/ partition as required. S & F modular type telephone outlet 1 pair coaded outlet.	Nos.	2	
11	DATA POINTS			
(a)	Computer networking points with 4 pair, 24 AWG UTP Cat 6 Cable as per latest ammendments of TIA /EIA 568 B.2-1 Specifications in PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimpping and testing required. Cost including Faceplate for Flush Mount Information Outlets Single Aperture with screw hole covers & Icon Tree Size 86mmX86mm including pvc/ ms box. (Cat 6 cable: Molex/ Avaya/Penduit/AMP) (Face plate i/o: Molex/ Avaya/Penduit/AMP)	Nos.	10	
(b)	Supply, Installation and Testing of 4 pair, 100 Ohm, 24 AWG, E Cat 5 UTP, flexible, Double ended Patch Cords along with 2 No of RJ 45 connectors with strain relief boots as per TIA /EIA 568 B.2 Specifications including making connections to Inform outlets of lengths.			
	2.0 Meter as required. Molex/ Avaya/Penduit/AMP)	Nos.	8	
(c)	SITC Data/ server rack of 9U Rack with all required accessories complete in all respect.	Nos.	1	
(d)	SITC of 24 port patch panel for rack with all accessories	Nos.	1	
12	LOW SIDE AC WORKS			
(a)	P & F electrical wiring for split and cassette units duly insulated with close cell elastometric foam, relevant sizes as per manufactures specifications including cutting and chiselling and repairing of wall / designated areas complete fine finish. 4c x 2.5 sqmm copper wire	0.00	Rmt.	Rate Only
(b)	P & F INSULATED condensate drain water piping flexible PVC with all bends, junctions and accessories approved make duly insulated to nearest drain trap including cutting and repairing the wall to the existing situation complete - 25mm / 32mm dia. (kissan/national)	0.00	Rmt.	Rate Only
(c)	P & F Copper refigerant piping for split units duly insulated with elastometric nitrile rubber tubular insulation (9mm) between each set of indoor & put door unit for above mentioned units to interconnect indoor unit and outdoor unit, relevant sizes as per manufactures specifications including cutting and chiselling and repairing of wall / designated areas complete fine finish.(MAKE PAPDIWAL/HITACHI) GRAND TOTAL	0.00	Rmt	Rate Only
	Amount in words			