

BOQ FOR ELECTRICAL WORK AT BANK OF INDIA					
UTTAM NAGAR,NEW DELHI.					
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.
0.1	Supplying after fabrication, floor cum wall, cubicle type fully compartmentalised dust and vermin proof panel with hinged type doors(except busbar chamber which will be bolted,on all sides)made from 2 mm thick CRCA M.S sheet, M.S angle iron,properly welded & painted,with full length of 25x3mm copper earthing strip.Cable & bus alleys as required including caution board inter connections earthingetc.Every switch/MCCB/MCB,'C' Series in separate compartment.				
	Incomer:				
i)	100 Amp. TP & N MCCB with 25 KA breaking capacity				
ii)	4 strip copper busbar of 25x6 mm ² full length.With heavy gauge color coded FRLS PVC sleeve covering by heat shrinking pressurized treatment,fixed on DMC/SMC insulators.				
iii)	Phase indicator lamps cluster LED type(Red, Yellow/Blue) with protection fused.				
iv)	Analogue ammeter 250 Amps with ammeter selector switch & connected through suitable current transformers 250/5.				
v)	Analogue Voltmeter 500 Volts with voltmeter selector switch, 2 Amps HRCfuses with carriers.				
	Outgoing:				
i)	40 Amp. Dp MCB 'C' Series-2 Nos. (spare)	1	Nos.		
ii)	63 Amp.FP MCB,'C' Series -6Nos(L&p-1,UPS-1ATM-1, AC DB-1,spare-2)				
iii)	100 Amps FP on load change over switch -1No				
2	Supplying , fixing directly on wall interconnecting,factory fabricated SPN double door consumer unit MCB,'C'Series D.B with 40 Amp. DPMCB,'C'Series (UPS) FOR Banking Hall with necessary blanking plates.	1	Nos.		
3	Same as S. No2.0 but 40 A DP MCB,'C'Series controlling 3 No 20 Amp MCB, 'C' Series & 9 Nos -10 Amp MCB,'C' Series (UPS) for server room.	1	Nos.		
4	Same as S. No2.0 but 63 A DP MCB,'C'Series controlling 1nos 63A and one nos 40amp DP MCB,'C'(Single UPS feeding two nos DBs).	1	Nos.		
	SUB TOTAL				
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.
5	Same as S.No. 3.0 but 4 way TPN DB with 63 Amp. Four pcie MCB, 'C'Series +ELCB 300 MA as incommer controlling 8 Nos 10 Amp MCB ,'C' Series input with				

	single phase outputs (L& P DB).	1	Nos..			
6a	Supply and installation of 63 Amps DP MCB,'C'Series controlling one 32Amps industrial socket with matching plug top in standard manufacturer's enclosure for incoming supply to UPS of system room including providing supply by PVC insulated single core copper flexible wires 3x6sq mm in 16 SWG MS conduit on surface/ recessed in wall including chase cutting and mending the damages good to original	1	set			
6b	Supply and installation of 25 Amps DP MCB,'C'Series controlling one 20 Amps industrial socket with matching plug top in standard manufacturer's enclosure for incoming supply to UPS of ATM room including the incoming supply wiring as per previous item.	1	set			
7	Same as item No.5.0 but with incoming 63 Amp TPMCB, C' Series, and out going with 3 Nos 63 Amps DP MCB, C'Series,in three phases,interconnection,eaething etc. complete in all respect as required (system room multi UPS/AC incoming supply).	1	Nos.			
8	Supplying/fixing,inter connecting Factory Fabricated double door VTPN 4way Distribution Board Three phase input & single phase output MCB,'C'Series having as under:- 63Amps TPN MCB,'C'Series,controlling 12 Nos.20 Amps SP MCB,'C'Series,with copper bus bar & all inter connection including blanking plates.	1	Nos.			
9	Point wiring with 3x1.5 mm sq.1100 V grade FRLS PVC insulated copper conductor wires 2x2.5+1x1.5sq.mm. for circuit wiring in M.S.16 SWG conduits with modular switches, sockets etc with all accessories. Maximum eight points to be taken for each circuit & cost of circuit wiring should be included in point rate. The wires should be enclosed in conduit or metal box and should not be left bare at any place.Conduits are to be fixed with MS check					
	SUB TOTAL					
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.	
	nuts and washers inside the metal boxes/DBs/Switches. Necessary colour code is to be ensured:-					
i)	One light point controlled by one switch	47	Nos.			
ii)	Two light point controlled by one switch.	14	Nos.			
iii)	Three light point controlled by one switch.	1	Nos.			
iv)	Four single fluorescent light on one switch (for cove)	0	Nos.			
v)	Ceiling fan point controlled by one switch.	5	Nos.			

vi)	Exhaust fan points/wall fan point & light plugs (with socket& switches on independent boards).	3	Nos.			
vii)	Light plugs with socket and switch on light switch board without separate board	16	Nos.			
viii)	Light fan (ceiling/ wall/ exhaust)' 6A socket outlet point wiring for sirong with 20 Amps three core fiexible round external 16A plug top suitable for suitable for connection from external 16 Amps socket outlet after opening of security door.	17	Nos.			
ix)	Call bell point wiring including supply of musical type of call bell and push etc (BM's cabin).	1	Nos.			
10	Same as above S.No 9.0 but for socket outlet with 2x4.0+ 1x1.5sq.mm with 16 A Roma/Crabtee/ABB/MK mobular type switch,sockets &standard accessories as required for Raw Power.	18	Nos.			
11	Same as above S.No.9.0 but for socket outlet with 2x4.0+ 1.5 sq.mm with 16 A Roma/Crabtree/ABB/MK mobular type switch with indicator. 16 Amps 6 pin sockets & standard accessories (power).	5	Nos.			
12	S/Installation of following light fixtures with electronic Ballasts,trulux/TL5 fluorescent tubes,CFL/MH lamps & all fixing maetrials including connecting wires etc.completer in all respect on false celilng/ original/ wall The layout is to be got approved before procurement of the light fittings. shall be made directly on the original ceiling by chain suspension arrangement and in no case the same shall be fixed directly on the false ceiling frame work.					
a)	Philips type FBS 470/236 D6 HF (FA).	38	Nos.			
b)	Philips type FBS-150/211.	4	No			
c)	Philips type FCS-518/211.	5	No			
d)	Philips type FBH 150/113	28	No			
e)	Philips type FMS 600/136 Bonsal,mirrorlite with 36 watt CFL lamp.	3	Nos.			
SUB TOTAL						
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.	
f)	Crompton wallwasher type DACH 18 with 18 watt CFL lamp (location to bedecided during execution.)	0	Nos.			
g)	Philips type FBS 285/211DL.	0	Nos.			
h)	Legrand pierlite/Crompton pendant/brakcet tyra illuminated Exit sigage complete with attachments to match Legrand Cat No.6608 74 with suitable watt CFL lamp/LED cluster lamps and rechargeable Ni-Cd battery suitable1 l for two hours backup.	1	Nos.			
i)	Philips type TCH128/2005/865 for cove lighting S/I of following light fixtures with ballasts, starring gear etc.& all fixing materials inclding connecting wires					

	etc. complete in all respect on the walls with angle pips					
	support of class B GI pipe support as fixing arms for the					
	HPSV street light fittings and directly on wall surface for					
	bulkhead light fittings and directly on wall surface for					
	bulkhead light fittingsThe pipe brackets should be fixed					
	rigidly on wall with at least two heavy gauge GI clamp					
	16 SWG thick,50 mm wide	0	Nos.			
j)	Philips type CRP 330/SON-T 70W (E)GR with suitable					
	HPSV tamps.	0	Nos.			
k)	Philips bulkhead light fitting type FXC 101 complete					
	with suitable CFL lamp.	0	Nos.			
13	Supplying &fixing wall mounting fan Usha/ Orient					
	400 MM(white)	17	Nos.			
14	Supplying &fixing Usha/Oriant double ball bearing					
	ceiling fan 1200 mm sweep (white) with electronic					
	stepped speed regulators (modular type).	5	Nos.			
15	Supply and fixing 300 mm sweep heavy duty					
	industiral type Usha/ Orient exhaust fans on wall/					
	window with necessary cutting ang making					
	necessary wooden frame and blocking the rest of					
	the opening, including supply andfixing of gravity					
	louvres extenally and all necessary accessories.	3	Nos.			
16	Supply and fixing 150 mm sweep Usha/ Orient					
	exhaust fans on wall with necessary cutting and					
	making necessary wooden frame and blocking the					
	restof the opening,including supply and fixing of gravity					
	louvres externally and allnecessary accessories for ATM					
	back office for circulating AC air flow.	1	Nos.			
	SUB TOTAL					
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.	
17	Supplying,fixing,interconnecting and commisssioning					
	of one set of 4 Nos 6 Amp5 pin modular sockets					
	controlled by one 16 Amp modular switch with					
	indicator on suitable Factory Fabricated M.S. Box					
	with all cover plates, fixing screws etc. complete in					
	all per requirement at site. The boxes shall befixed					
	below the tables. All switches/sockets shall be fully					
	modular with all accessories and of make "Roma/					
	Crabtree/ ABB/ MK" make. The wiring is to be done					
	with 3x2.5 mm2 FRLS PVC insulated singie core					
	copper wire in 20/25 mm MS conduit from UPS DB to					
	point with looping in a single circuit restricted to					
	three/four points only.	15	Nos.			
18	Same as S. No. 17.0 but 2Nos 15 Amp. 6pin sockets					

	controlled by 2 Nos 15Amp switches with indicators to be provided (system 3 ATM 1).	10	Nos.			
19	AC Power point wiring in M.S. conduit 16 SWG conforming to IS 953 by 1.1 KV grade single core FRLS PVC insulated copper conductors conforming to IS 694 using 2x4 sq. mm & 1x2.5 mm 2 as earth wires. The wiring shall start from DB to individual AC power point The rate shall include the cost of supplying & fixing metal clad 20 Amp SP& N socket controlled by 25 Amp MCB, 'C' Series in fabricated M.S. box complete with matching plug top of window and split type. Contractor to install after confirming the same).	9	points			
20	Supplying and laying of following 1100 V grade XLPE insulated and FRLS PVC sheathed armoured aluminium cables conforming to IS 7098 wires by GI bars and saddles on wall/ ceiling and wall/floor pass through GI class B GI pipe.					
(a)	3.5x50 mm ² (Mains&DG Set panel)	80	Meter			
(b)	3.5x35mm ² (AC)	25	Meter			
(c)	4x16mm ² (L&P)	25	Meter			
(d)	same as above but 2x10 mm ² copper armoured cable with 12 SWG copper wires.	25	Meter			
	SUB TOTAL					
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.	
21	End termination of above cables with heavy duty nickel plated brass compression gland and copper cable end sockets, FRLS PVC insulation tape etc.					
(a)	3.5x50mm ²	4	Nos.			
(b)	3.5x35 mm ²	2	Nos.			
(c)	4x16 mm ²	2	Nos.			
(d)	2x10 mm ² copper.	2	Nos.			
22	The four items listed below (No 22 to 25) shall be undertaken directly by M/s Sanushaa Technologies (contact person Sri S.Tiwari 09871668400, 01206450701) The contractor shall provide the rates of getting the same executed by the agency. The representative of the agency shall measure & submit the test report of the earth directly to the branch & one copy to the bank The agency is also required to test and provide the test report of the earthing measurement every six months to the branch and Elect. Engr. For monitoring upto a period of three years.					

22 a	Supply and installation of pipe-in-pipe technology Ashlok Earthing system.Model T-19 with outer diameter of 50mm length 2000 mm embedded in the soll with masonry inspection pit alongwith cover etc.complete in all respect. Earth pit installation test certificate to be submitted after measurement of earthresistance as per the provision in IS3043. (Panel earthing)	2	Nos.		
23	Supply and installation of pipe-in-pipe technology Ashlok Earthing system.Model T-39 with outer diameter of 80mm length 2000 mm embedded in the soilwith masonry inspection pit alongwith cover etc. complete in all respect. Earth pit installation testcerificate to be submitted sfter measurement ofearth resistance as per the provision in IS 3043. (UPS connection)	1	Nos.		
24	Supplying and fixing 25x3mm copper strip insulated by heat pressurized heavy gauge PVC sleeve duly jointed by full lap brazing and drawn underground in 40 mm class B GI pipe from the inspection pit to the inside of the branch premises	50	Meter		
25	Supplying and fixing 25x3mm copper strip,insulated by heat pessurized heave gauge PVC sleeve,duly jointed by full lap brazing and fixed on wall with copper saddles & brass	80	Meter		
SUB TOTAL					
S.NO	ITEM	Qty.	Unit.	Rate.	Amount.
26	Supply,installation,testing and commissioning of recessed ceiling type Ahuja speakers.6w150mm dia on faise ceiling and connecting to music system Individual volume control switches for the muisc system should be provided The item includes S/L of wiring for the music system for speakers with FRLS PVC inculated 2core 40/0.019 flexible cord insurface/ recessed heavy gaugvy PVC conduits including finishing of chase cutting to original.	6	Nos.		
27	Supply,installation,testing and commissioning of surface wall/ceiling type Ahuja speakers,6w 150mm dia on wall / ceiling and connecting to music system The item includes S/l of wiring for the music system for speaters with FRLS PVC incsulated 2core 40/0.019 flexible cord in surface /recessed heavy gauge PVC conduiis incluing finishing of chase cutting to original.	1	No.		
28	Supply installation,testing and commissioning of ACD/MP 3player with 40 watt hi- fidelity preamplifier providee with external voice input system with voice override provision and including supply of microphone with all cabling etc.& connection to speakers. (units of Philips/Sony/BPL)	1	set		























































































































































