

STATE BANK OF INDIA					
BOQ :DUCTABLE VRF AIR CONDITIONING WORK at PBB GANESHGURI BRANCH					
BRANCH NAME : PBB BRANCH AT G.S. ROAD, GUWAHATI					
CARPET AREA : 3369 SQ FT					
DUCTABLE VRF AIR CONDITIONING WORK at PBB GANESHGURI BRANCH					
S.No.	Specification/ Model	Qty	Units	Rate	Amount
A	VRF HIGH SIDE WORK				
1.0	Supply of 380- 415V - 3 Ph - 50 Hz +/- 10% Top Discharge type Only cool Next Generation Variable Refrigerant Flow system, each Outdoor unit comprises of 100% Inverter Driven Hermatically sealed Scroll Compressors, air cooled condenser with protective coated fins heat exchangement Corrosion fin factory coated Propeller type Fan with motor,Specially designed ODUs with refrigerant cooled heat sink;Non-stop working at 56 deg.C. Outdoor with capable of working within Range of Voltage fluctuation from 380V to 420V,auto addressing setting, refrigerant cooled PCB, electronic expansion valve.Microprocessor Controller with R410A gas.				
a)	24.0 HP	1	Nos.		
2.0	INDOOR UNIT				
	Supply of below mentioned capacities Hi Wall, Cassette, Ducted type indoor air conditioners complete with evaporator coil, fan and fan motor, control panel as per specifications and				
a)	1.7 TR VRF 4Way Cassette Unit for Chief Manager Room	1	Nos.		
b)	8.0 TR VRF Ductable Unit for Bank Hall area	2	Nos.		
3.0	Supply of Cordless Remote Controller	1	Nos.		
4.0	Supply of Corded Remote Controller	2	Nos.		
5.0	Supply of Refnet joints for indoor and outdoor units of suitable size as per requirement.	3	Nos.		
6.0	Supply of 5 Star Rated 1.5 TR Inverter Split Air Conditioning Unit (Non VRF)	1	Nos.		
	Total A (Excluding GST)				
B	LOW SIDE WORK:				
7.0	Outdoor Units:				
	Installation testing and commissioning of below mentioned capacities VRF outdoor units with Nitrogen flushing, vacuumizing & pressure testing.				
a)	24.0 HP	1	Nos.		
8.0	Indoor Units:				
	Installation testing and commissioning of below mentioned capacities VRF indoor units with Nitrogen flushing & pressure testing.				
a)	1.5 TR Non VRF Inverter Split AC (with suitable stabilizer)	1	Nos.		
b)	1.7 TR VRF 4Way Cassette Unit for Chief Manager room	1	Nos.		
c)	8.0 TR VRF Ductable Unit for Bank Hall area	2	Nos.		
9.0	Refrigerant Pipe Works:(For VRF)				
	Supply, installation, testing and commissioning of interconnecting copper Circuit refrigerant pipe work (19mm/13mm) duly insulated with elastomeric nitrile rubber type tubular insulation between indoor & outdoor units as per specifications. Joints shall be covered with nitrile rubber tape of 3 mm thick complete as per specification. (Both pipes Liquid & Gas)				
a)	Suction Line with 19mm Thick Nitral Insullation.	60	Rmtr		
b)	Discharge Line With 13mm Thick Nitral Insullation.	60	Rmtr		
10.0	Drain piping:				

	Providing and fixing of UPVC drain water piping with fittings, support and insulated with 9mm thick closed cell elastomeric nitrile rubber insulation complete as per specifications.				
a)	UPVC Drain Pipe of 25mm	12	Rmt.		
b)	UPVC Drain pipe of 32mm	20	Rmt.		
11.0	Communication Cable:				
	Supply and laying, testing & commissioning of following sizes of Copper conductor control cables including pvc conduit, fixing clamps & proper connections to equipments etc. complete as required.				
	2C x 0.75 Sq.mm	80	Rmt.		
12.0	Supply and refilling of additonal Refrigerant- 410 A	22	Kgs		
13.0	Supply ,Installation, Fabrication and Fixing of Galvanised Sheet (GI) Ducting of 24 Gauge.	120	Sqm		
14.0	Acoustic Insulation of Duct Plenum with 10 mm open Cell Nytrell Sheet.	30	Sqm		
15.0	Thermal Insulation with 13mm thick nitril rubber	120	Sqm		
16.0	Canvas Connection	2	Nos.		
17.0	Supply Fixing of Supply Air Grill/ Diffuser with damper	5	Sqm		
18.0	Supply Fixing of Return Air Grill/ Diffuser	5	Sqm		
19.0	Outdoor Stand for 1.5 TR Split AC	1	Nos.		
20.0	Lifting & Shifting of VRF Outdoor Unit	1	Nos.		
21.0	Supply and fixing of Outdoor Structure with M.S. Iron angle to Provide Support the Outdoor Unit for future maintainance purpose and entire commissioning and finishing the project	1	lot		
Total B (Excluding GST)			Rs.		
TOTAL (A+B) Excluding			Rs.		