PRICE BID FOR AIR CONDITIONING WORK FOR STATE BANK OF INDIA SINDHU BHAVAN BRANCH, AHMEDABAD					
SR. No.	**Description of Item**	**Unit**	**Qty**	**Rate**	**Amount**
				Rs.	**Rs.**
A)	**PART 'A'**				
I	**Variable Refrigerant Volume (VRV/VRF) System**				
1	Supply, Installation, Testing and Commissioning of Variable refrigerant volume type air-conditioning system suitable for cooling using **100 % Fully Inverter** compressors based of **R-410A** refrigerant gas complete as per specifications with the condensing unit shall be complete with refrigeration **compressors,condenser coils, electronic expansion valve, solenoid valves, 4 way valve, shut down valves,service ports,accumulator and all other components** which are essential for safe and satisfactory operation of the system				
	The ODU shall have maximum external static pressure 80 Pa to achieve installation flexibility. ESP must be selectable in minimum 3 steps to select as per requirement to optimize energy, capital cost, building aesthetics & noise level. Outdoor unit heat exchanger coil should be accommodated within 3 sides of outdoor unit. The 4th side to be freely available for ease of maintenance and safety of the person.				
	VRF system shall have auto Restart function i.e. In case of power failure, units should restart automatic when power resume.				
	VRF system shall have auto bypass i.e. If any one IDU have any electric or PCB failure, rest of the system should continue to operate.				
	The VRF system shall have three phase technology, which shall correct phases automatically in case of phase reversal.				
	The VRF has above 3.5 cop at 100 % load @ 35 deg. C outside and 27 deg. C inside.				
	Units shall be provided with builidng microproseser control panel, for automatic opration capacity control machine shall be shuitable for working BMS system.				
	If should be with latest technology and highest efficiency unit.				
	MAKE : DIAKIN/HITACHI/MITSUBISHI ELECTRIC/ MITSUBISHI HEAVY /O GENRAL/ TOSHIBA				
1.1	**Supply of Outdoor Unit**				
1.1.1	Supply of 24 HP Unit(ODU cobination as per OEM technology)	Nos.	1		
1.2	**Supply of Indoor Unit**				
a	**4 Way Round/Reguler Flow CASSATTE TYPE** Indoor Unit with fittings,Consisting of fan,Four speed motor,Panel,coil section with DX coil, outer cabinet,filter,insulated drain pan(with inbuilt drain pump),provision for fresh air,Including all accessories etc.				
1.2.1	4.0 TR CASSETTE UNIT	Nos.	1		
1.2.2	3.2 TR CASSETTE UNIT	Nos.	4		
b	**Hi Wall Split Typr** INDOOR UNIT withIncluding all accessories etc.				
1.2.5	1.6 TR HI-WALL TYPE SPLIT UNIT	Nos.	1		

1.2.6	1.0 TR HI-WALL TYPE SPLIT UNIT	Nos.	2		
1.3	**CORDLESS REMOTE CONTROLLER with Receiver kit**				
1.3.1	CORDLESS REMOTE CONTROLLER with receiver kit for Cassette & Hi-Wall Split	Nos.	8		
1.4	**REF NET joints and Accessories**				
1.4.1	Ref-Net joints and Accessories for IDU & ODU	Pair	7		
1.5	**Drain Pump**				
1.5.1	SITC of Suitable drain pump for Split AC	Nos.	1		
	TOTAL PART 'A'				
B)	**PART 'B'**				
1	**Refrigerant Piping and Ref Joint**				
	All detailed drawings should be made by the vendor as Mfg. Company norms. Work shall be started after the submission of the drawing by the authorized person of Mfg. Company with covering letter				
	Supply & Installation of interconnecting Refrigerant copper pipe size approved by O&M Comapny,insulated with **19 mm** thick closed cell electrometric nitrile **class 'O'** type rubber tubular insulation between each set of indoor & outdoor units ,all piping inside the room shall be properly fixed/supported with suitable size of clamp/ M.S. hanger and all external/ exposed to sun piping shall run in M.S. painted cable tray etc. as required.				
1.1	Supply and Installtion of approved Copper Pipe with Insulation as per the specifications. The piping length will be measured as single length(indoor to outdoor)	RMT	100		
1.2	Installation , testing and commissioning of All REF NET joints and Accessories with insulation for above VRF/VRV System (All the Insulation joint must be covered with aerotape.)	lot.	1		
2	**Drain Piping**				
2.1	Supply & Installation of **32/25/19/12 MM** Rigid U**PVC** piping complete with fittings and supports	RMT	60		
3	**Control & Transmission Wiring**				
3.1	Providing & fixing control cum transmission wiring of 3 core x 1.5 sqmm Shielded/Seathed flexible control cable between indoor and outdoor unit as per the specifications with necessorry supports and shall be run in pvc conduit.	RMT	110		
4	**MS Stand for Outdoor Units**				
4.1	M.S Structure duly epoxy painted for installing above VRF outdoor unit , TFA , Split and TFA ODU/Condensor unit on MS HEAVY STURCTUE With MIN. 75 x 40 mm Channel with Angle and Supports including if Scafolding at Terrrace Only	KG	80		
5	**Installation,Testing & Commissioning of VRV System**				
	Handling, lifting & shifting, and installation of all indoor & outdoor units at the site with required anchor bolts, gi threaded rod, etc. As per the site requirement and approved drawing by architect/consultant				
	Pressure testing of complete copper piping network @2 times of working pressure for 24 hours to ensure leakproof piping				
	Reqd. Refrigerant gas charging & topping up as per indoor, outdoor capacity, additional copper piping (additional gas charging sheet should be attached in handing over the report)				

5.1	Outdoor Units of 24 HP with all connected indoor Units as per Approved Drawing	lot.	1		
6	**Civil Work**				
6.1	MISC. CIVIL WORK LIKE WALL JURRY, WALL / SLAB / BEAM CORECUTING OUTS TO PASS DUCTS & PIPES AND RE FINISHING OF THE SAME TO THE ORIGINAL FINISH	lot.	1		
	TOTAL PART 'B'				
	Total PART 'A + B' Excluding GST				
					Sign & Seal with contractor