

**INDICATIVE PRICE BID FOR AIR CONDITIONING WORK OF STATE BANK OF INDIA FOR
AHMEDABAD MAIN BRANCH, BHADRA, LAL DARWAJA, AHMEDABAD**

SR. No.	Description of Item	Unit	Qty	Rate	Amount
A)	PART 'A'				
1.1	<u>AIR HANDLING UNIT (DIRECT EXPANSION DX TYPE)</u>				
	Supply of Multiple DX AHUs, Double Skinned Air Handling Unit of 'AL' sections having thermal break profile with GI powder coated panels of double skinned construction internally insulated by rigid 43 mm thk PU foam having sandwich type access door, SS 304 drain pan, belt pully drive set, vibration pads and required distributors for expansion valve (a) Suitable DIDW Centrifugal backward curve belt driven Fan having Fan section (b) Filter section with required quantity of of HDP washable filters of EU-4 filtration capacity (c) Manually operated SA damper in Al construction (d) DX copper coil of 4 RD,12 FPI of suitable size (e) Mixing box with RA & FA damper in Al construction and (f) TEFC, squirrel cage induction motor (IE-2 Rated) of suitable HP with guards & to be supplied of appropriate capacity including assembly of AHU at site For Capacity as mentioned .				
1.1.1	15000 cfm - 65mm Sp - 37.5 TR	Nos.	1		
1.2	<u>Supply of Outdoor Unit</u>				
	Supply 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 copper coils, electronic expansion valve, solenoid valves, shut down valves, service ports, accumulator and all other components which are essential for safe and satisfactory operation of the system				
	VRF system shall have auto Restart function i.e. In case of power failure, units should restart automatic when power resume.				
	The VRF system shall have free phase technology, which shall correct phases automatically in case of phase reversal.				
	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.				
1.2.1	Supply of 24 HP ODU limiting to total 48 HP Unit	Nos.	2		
1.3	<u>AHU KIT</u>				
1.3.1	Supply of AHU KIT to connect VRF/VRV System	Nos.	2		
	TOTAL PART 'A'				

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B)	PART 'B'				
1	<u>Refrigerant Piping and Expansion Valve Kit</u>				
	Supply & Installation of interconnecting Refrigerant copper pipe size insulated with 19 mm thick closed cell electrometric nitrile class 'O' type rubber tubular insulation between each set of AHU & outdoor units ,all piping inside the room shall be properly fixed/supported with suitable size of clamp/ M.S. hanger.				
2.1.1	Supply and Installtion of approved hard Copper Pipe with Insulation as per the specifications (ODU will be installed at Terrace Level)	RMT	200		
2.1.2	Installation, testing and commissioning of All Expansion Valve kit/ Multi kit and Accessories for above System as specified	lot.	2		
2	<u>Drain Piping</u>				
2.2.1	Supply & Installation of 25 MM/ 32 MM Rigid UPVC piping complete with fittings,supports and duly insulated with 6 mm thick closed cell nitrile class 'O' rubber insulation.	RMT	50		
3	<u>Control & Transmission Wiring</u>				
2.3.1	Providing & fixing control cum transmission wiring of 3 core x 1.5 sqmm Shielded/Seathed flexible control cable between AHU Panel to Outdoor unit as per the specifications with necessary supports which has to be liad in PCV Conduit.	RMT	210		
4	<u>MS Stand for Outdoor Units</u>				
2.4.1	Providing & fixing of MS Structure for ODU on terrace	KG	300		
5	<u>Installation,Testing & Commissioning</u>				
	HANDLING, ASSEMBLY, LIFTING & SHIFITINING AND INSTALLATION OF AHU & OUTDOOR UNITS AT SITE WITH REQUIRED ANCHOR BOLTS,GI THREADED ROD ETC. AS PER THE SITE REQUIREMENT AND APPROVED BY Engineer				
	PRESSURE TESTING OF COMPLETE COPPER PIPING NETWORK @2 TIMES OF WORKING PRESSURE FOR 24 HOURS TO ENSURE LEAKPROOF PIPING				
	REQD. REFRIGERENT GAS CHARGING & TOPPING UP AS PER AHU,OUTDDOR CAPACITY ,ADDITIONAL COPPER PIPING (ADDITIONAL GAS CHARGING SHEET SHOULD BE ATTACH IN HANDING OVER REPORT)				
2.5.1	Outdoor Units limiting to 48 HP should connected with AHU Unit as per Approved Drawing	lot.	1		

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6	<u>AHU Electrical Starter Panel</u>				
	Design, Supply Installation testing and commissioning of below mentioned Electrical Panel with necessary control , interlocking and power cabling within the AHU room, MCCB Starter including auto manual selector switches, overload spp, phase indications, 4 Nos. non polarized NO-NC contacts for tripping on signal from fire dampers/Fire alarm panels. Panel build as per IP-55 rating in approved manner, termination of cables with approved cable glands within the AHU room or AHU loaction marked area (Cable from starter/Panel to AHU Motor is in vendor's scope. The AHU & VRF units should be controlled with wired Remote control)				
2.6.1	15000 cfm - 65mm Sp - 37.5 TR	lot.	1		
7	<u>Ducting Work</u>				
	Air distribution ducting made out of G.I. sheet including collars, class VIII conforming to IS 655 including supports, bracing, flanges, turning vanes, fasteners, rivets, gaskets, nuts & bolts, etc. complete at every 2.4 m c/c & at bends etc. as per specifications.				
2.7.1	0 - 750 mm : 24 Gauge	SQM	250		
2.7.2	Plenum : 22 Gauge	SQM	70		
8	<u>Insulation Work</u>				
2.8.1	Supply & Installation having 19 mm thick closed cell nitrile class 'O' rubber insulation on Supply/Return Ducting And on existing ductas required and asked by architect	SQM	500		
9	<u>Accoustic Work</u>				
2.9.1	Duct Insulation applied inside of duct work with 25mmm thick rigid fiber Glass 48 Kg/Cum density covered with RP tissiue and finished with 26 G Al./GI perforated sheet or equivalent Accoustic.	SQM	200		
10	<u>Supply / Return Air - Diffuser/Grille</u>				
2.10.1	Supplying and fixing of supply air square/round diffusers of powder coated aluminium with OBD (aluminum volume control collar damper anodized in matt black shade) as per specifications complete as required (Scaffolding will be in vendor's scope if required)	SQM	25		
11	<u>Volume Control Duct Damper</u>				
2.11.1	Supply, installation, testing and balancing of galvanized steel construction opposed blade volume control duct dampers, blades & casing both to be of as per approved drawings and specifications.	SQM	10		
12	<u>Canvass Connection</u>				
2.12.1	Supply and Fixing of flexible Rexin connection	SQM	3		
13	SITC of Chilled Water copper Coil of 6 RD in existing AHU Room at Basement of LHO Building (2500 * 600 MM)	Nos.	10		

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14	Chilled Water MS Pipe With Necessary supports as required sizes with 32 mm Insulation Class 'O'				
2.14.1	80 MM	RMT	61.67		
15	Existing Ducting patch work to leakproof the duct	Lot.	1		
17	Existing AHU Blower Servicing and Paitning Work	lot.	1		
16	Synthetic Filter of 500*500 MM 90% Dwon to 10 micron filtration	Nos.	70		
17	Structure/frame for Filter mounting	lot.	1		
18	Existing Duct Cleaning at basement area	lot.	1		
19	Butterfly Valves of required sizes	Nos.	4		
20	Y Stariner of required sizes	Nos.	2		
21	Civil Work				
2.21.1	Civil Work Includes Jari Work and cutout to pass duct and pipes	lot.	1		
	TOTAL PART 'B'				
	Total PART 'A + B' Excluding GST				
C)	PART 'C'				
1	Dismentaling and buyback of existing AHU Copper Chilled Water Coil	Lot.	1		
	TOTAL PART 'C'				
	Total of PART 'A + B - C'				