

Name of Work : HVAC Works including supply, installation, testing and commissioning etc. in SIDBI's Head office at SIDBI Tower, 15, Ashok Marg, Lucknow

HVAC Works BOQ for Ground Floor Lobby, SIDBI Tower - Volume II - Financial Bid

S.no.	Description of work	Qty	Unit	Rate In Rs [In Figures]	Rate In Rs [In Words]	AMOUNT
1	VRV/VRV SYSTEM					
	Supply, installation, testing and commissioning of Variable refrigerant flow/ Variable refrigerant volume type system with indoor units including individual controller for cooling and heating type operation. The quoted price should include all duties, Insurance FOR site, lifting and positioning etc. as per specifications.					
1.1	VRV/VRV outdoor					
	Supply of outdoor units equipped with highly efficient scroll compressor with inverter type compressor, special acrylic coated heat exchanger, low noise condenser fan, auto check function for connection error, MS stand, having interconnected control wiring between IDU ODU. Control panel and refrigerant piping housed in compact housing duly powder coated complete as required for trouble free operation, refrigerant should be R410A and as per specifications. Installation, testing and commissioning of Variable refrigerant flow/ Variable refrigerant volume type system with indoor units including individual controller for cooling and heating type operation. The quoted price should include all duties, insurance FOR site etc. as per specifications.					
	28 HP ODU with heat pump type Outdoor Unit with Dual Inverter Compressor	1	Each			
1.2	INDOOR UNIT					
	Supply, installation testing and commissioning of indoor units equipped with pre-filter, fan section with low noise fan, multispeed motor, coil section with DX coil, outdoor cabinet, drain pan and drain pump, cordless remote/wire control for ductable, cabling, vibration isolation, earthing, necessary supports etc. as per specifications.					
1.2.1	Ductable Type					
a.	Capacity - 8.0 TR	2	Each			
b.	Capacity - 4.0 TR	2	Each			
2	Supply,Installation,Testing & Comissionig of Corded Remote Controllers	4	Each			
3	Supply,Installation,Testing & Comissioning of Refnets					
4	Refrigerant Piping for VRV/VRV system SITC of interconnecting copper refrigerant pipe with Nitrile rubber (with 13 mm thick Class 'O' Nitrile rubber for liquid line and 19 mm for suction line) with glass cloth faced protection at expose side insulation between each set of indoor and outdoor units as per specification, all piping inside the room shall be properly supported with MS hanger and clamps and all external piping with UV coating as per specification and drawing etc. complete as required. Including y joint sets , distribution, heads, for all indoor unit, including AHU, as per layout drawing ODU pipe connection kit etc. complete as required					
	Refrigerent pipe sizes					
4.1	34.9 mm dia	15	Rmt			
4.2	28.6 mm dia	15	Rmt			
4.3	22.2 mm dia	25	Rmt			
4.4	19.1 mm dia	15	Rmt			
4.5	15.9 mm dia	45	Rmt			
4.6	9.5 mm dia	60	Rmt			
4	Providing and fixing control cum transmission wiring of 2 core x 0.75 sqmm flexible copper conductor PVC insulated/PVC sheathed cable in suitable conduit between indoor and outdoor unit along with other refrigerant pipes etc. complete as reqd. 2 core x 1.5 sqmm	220	Rmt			
5	Fabrication, Supplying and fixing of angle iron stand in welded construction made out of following sizes of MS angle iron complete with painting one coat of red oxide primer and two coat of synthetic enamel paint of approved brand etc. complete as reqd. for fixing outdoor units for VRV/VRV system complete as required. Size as per structural requirement	1	Nos			
6	Supply and fixing of CONDENSER DRAIN PIPE OF REQUIRED SIZE COMPLETE AS REQUIRED AND AS PER SPEC.	80	Rmt			

7	Supply, Fabrication, installation and testing of AI ducts in accordance with the approved shop drawings complete with all accessories like GI Flanges, suspension rods , anchor bolts, GI bolts & nuts etc.				
a	22G	45	Sqm		
b	24G	125	Sqm		
8	Supply and fixing of Thermal insulation with 9 mm thick nitrile rubber	125	Sqm		
9	SUPPLY AND FIXING OF AI. Powder coated patch / continuous grills for the following sizes 100 mm wide / 150 mm / 200 mm continuous grille	6	Sqm		
10	Supply, installation and balancing of GSS Volume Control Dampers with operating handle with plastic gears for Supply air duct branches in accordance with the approved shop drawings	3	Sqm		
11	Supply and Installation of Power Cabling 4C x 25 Sqmm Copper Cable from Electrical Panel to Outdoor Unit	10	Rmt		
12	Supply, installation and testing of Acoustic lining for supply air ducts with factory laminated Fibre Glass with Black RP Tissue covered with 28G Perforated Aluminium sheet as per the specifications and as detailed in the drawings.				
12.1	25 mm thick acoustic lining 24 Kg / cubic meter density	45	sqm		
13	Supply and Fixing of Fire Retardant Canvass Connection	4	Nos.		
14	Supply, Installation, Testing & Commissioning of Electrical Panel (IP65) along with 80 Amp MCB x 2 Nos(1W+1S) for VRF Outdoor Units	1	Nos.		
Total for SITC of VRV System - A					
Comprehensive Annual Maintenance Contract (CAMC) after expiry of warranty period of ONE year:					
The Bidder has to enter into an CAMC agreement with the SIDBI at the discretion of the SIDBI, after the expiry of 1 year warranty period to support the equipments supplied for a minimum period of next 4(four) years at the rate quoted in "Commercial Proposal".					
AMC cost after initial warranty period of 1 years. The warranty & AMC will be comprehensive and all cost of repairs / replacement of parts, accessories, etc. will be borne by the successful tenderer. The AMC payments will be released six monthly after successful completion of the period. Comprehensive AMC includes A) Servicing and maintenance of supplied ACs, B) Repairing and replacement of any electrical parts such as fan, switches, MCBs. Faulty Cables, pipe line leakage attend, Refilling of oil and gas and consumables etc					
1. For 1 st year after warranty period		1	No.		
2. For 2nd year after warranty period		1	No.		
3. For 3rd Year after warranty period		1	No.		
4. For 4th Year after Warranty Period		1	No.		
Total 4 Year Comprehensive AMC Charges - B		4	Nos		
Grand Total Project cost A + B					
				TOTAL	
Total in words					
All rates are exclusive of GST.					