

Name of Work: Interior/Renovation work in SIDBI Office at Atmaram House,1 Tolstoy Marg,New Delhi						
Financial Bid- HVAC Works Schedule of Quantities for 1ST TO 4TH FLOOR						
Sealed tenders on "item rate" are invited in a single bid system from Original Equipments Manufacturers (OEM) / Authorized Dealers OF Daikin/ Hitachi/ O-general/ Mitsubishi for HVAC Works including supply, installation, testing and commissioning etc. in SIDBI's office premises at Atma Ram House, 1, Tolstoy Marg, New Delhi.						
S.no.	Description of work	Qty	Unit	Rate in Rs [In Figures]	Rate in Rs [In Words]	AMOUNT
1	VRF/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 etc. as per specifications. [4 STAR RATING]					
1.1	VRF/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.					
	16 HP ODU with heat pump	5	Each			
1.2	INDORE 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.					

S.no.	Description of work	Qty	Unit	Rate in Rs [In Figures]	Rate in Rs [In Words]	AMOUNT
2	4 way cassette type unit of following capacity along with remote controle/wall mounted cassettes					
2.1	3TR	2	Each			
2.2	2.5TR	20	Each			
2.3	2TR	3	Each			
2.4	1.5TR	1	Each			
3	Refrigerant Piping for VRF/VRV system SITC of interconnecting copper refrigerant pipe with Nitrile rubber 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					
3.1	12.70 mm with 19mm thick Nitrile rubber insulation	160	RM			
3.2	38.1 mm with 19mm thick Nitrile rubber insulation	75	RM			
3.3	31.75 mm with 19mm thick Nitrile rubber insulation	40	RM			
3.4	28.6 mm with 19mm thick Nitrile rubber insulation	200	RM			
3.5	25.4 mm with 19mm thick Nitrile rubber insulation	60	RM			
3.6	22.2 mm with 19mm thick Nitrile rubber insulation	80	RM			
3.7	19.05 mm with 19mm thick Nitrile rubber insulation	170	RM			
3.8	15.88 mm with 19mm thick Nitrile rubber insulation	250	RM			
3.9	9.52 mm with 13mm thick Nitrile rubber insulation	230	RM			
3.1	6.35 mm with 13mm thick Nitrile rubber insulation	10	RM			
4	Providing and fixing control cum transmission wiring of 3 core x 1.5 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.					
	3 core x 1.5 sqmm	350	mtr			

S.no.	Description of work	Qty	Unit	Rate in Rs [In Figures]	Rate in Rs [In Words]	AMOUNT
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/VRF system complete as required.					
	40mm x 40mm x 5mm	400	Kg			
6	LT Main (Panel)					
	Supply, installation testing and commisioning of cubical type main MB panel board suitable for three phase 415V 50Hz and rupturing capacity at 415V fabricated from minimum 2MM thick CRCA sheet, powder coated through seven tank process faciling for pricking and degreasing complete with following mounting, interconnection etc as required. (Main Electrical Panel)					
	Incomer					
	250Amp MCCB 35KA 4 POLE 1NO.					
	Busbar 250Amp copper 4strip sleeved					
	Outgoing					
	150Amp TPN MCCB 16KA 1NO(32 HP OUT DOOR UNIT) AND 1NO(48 HP OUT DOOR UNIT)					
	63Amp TPN MCCB 16KA(AHU) 1NO.					
	2no spare					
	ilndicating lamps RYB					
	Voltmeter with SS 0 to 500 including MCB					
	CT 250/5					
	Ammeter with selector switch 0 to 250A	1	No.			
7	Supply of air cooled/ 4 way casette type split Acs unit with scroll comressors and cordless remote control and as per specification of following capacity.					
	Complete with internal and external unit (4 star rating)					
7.1	3TR	1	EACH			
7.2	2.5TR	15	EACH			
7.3	2TR	5	EACH			
7.4	1.5TR	1	EACH			
8	Installation testing and comissioning of 4 way casette type split ac unit of following sizes					
8.1	3TR	1	EACH			

S.no.	Description of work	Qty	Unit	Rate in Rs [In Figures]	Rate in Rs [In Words]	AMOUNT
8.2	2.5TR	15	EACH			
8.3	2TR	5	EACH			
8.4	1.5TR	1	EACH			
9	Cable for indoor and outdoor connection as required for split acs	400	m			
10	Supply of automatic voltage stablizer of following capacity					
10.1	5kw	22	E			
11	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
	8 way (4 + 24), Double door	2	E			
12	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
12.1	Triple pole and neutral	7	E			
12.2	Single pole and neutral	15	E			
13	SUPPLY FIXING TESTING AND COMMISSIONNG OF AIR COOLED DUCTABLE SPLIT UNIT WITH SCROLL COMPRESSOR AND CORD LESS REMOTE CONTROL AS PER SPECT. OF FOLLOWING SIZE AND COMPLETE WITH INDOOR AND OUT DOOR UNITS AND WITH CONTROL AND POWER CABLE AS REQUIRED. AND COMPLETE IN ALL RESPECT.					
	8HP	4	E			
14	Supply and fixing of CONDENSER DRAIN PIPE OF REQUIRED SIZE COMPLETE AS REQUIRED AND AS PER SPEC.	350	m			

S.no.	Description of work	Qty	Unit	Rate in Rs [In Figures]	Rate in Rs [In Words]	AMOUNT
15	Supply ERRECTION TESTING OF GSS DUCTING OF FOLLOWING SIZE 24 G	150	sqm			
16	SUPPLY AND FIXING OF GRILLS / DIFFUSERS WITH DAMPERS COMPLETE AS REQUIRED	1	sqm			
	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	4	Nos			
	Grand Total Project cost (A+B-C+D)					
	TOTAL OF ALL WORKS					
	All rates are exclusive of GST.					