

WORK ESTIMATE FOR VRV WORKS FOR NEW REGIONAL OFFICE OF CANARA BANK AT CBD BELAPUR.					
Sr.	Description	Unit	Qt	Rate	Amount
HIGHSIDE					
1	Important Description before quoting - The Venue of works must be visited before Quoting the rates. Every works of this prestigious Project is to be done in accordance with the relevant company catalogue/design basics. The Site has pre-installed outdoor unit . The general tender requirements are posted for the required works to be done in completion with full Guarantee for atleast 2 years (1 Year warranty + 1 year AMC)of the composite works done by the vendor firm. The contractors quoting below 15% of the estimated cost will be required to submit Performance warranty equivalent to 10% of the estimated cost of works which will only be released after the issuance of successful completion letter of the Architect/ Consultant.. The Vendors must have the dealership of the makes of the approved Brand and Modal to be supplied at Site. Wherever the word equivalent is used the same means to get the written approval of the Architect for that particular make.				
	Supply VRF Outdoor units System DAIKIN -ODU MODAL RXQ20ARY6 Or Equivalent as approved by the appointed Architect/ Consultant from reputed makes of Toshiba, Mitsubishi, Hitachi /Voltas etc. with R-410A Refrigerant, Entire works include all the constituents right from Supplying to installation ,commissioning and running of the machine in good condition as marked in the manual of the company.				
a	16 HP	No	4		
2	VRF Indoor Units				
	Supply VRV/VRF Indoor units System with R-410A Refrigerant. The indoor units are to be installed to have them complete in all respects including their functionality. The drain pumps used for drain of water with all considerations and leak proof test certificate are the works to be carried out with outmost care.				
2.1	4 Way Cassette Units with Cordless Remotes				
a	4.TR	Nos	11		
b	3 TR	Nos	0		
c	2 TR	Nos	6		
d	1.5TR	Nos	0		
2.2	High wall unit				
a	1 TR	Nos	4		
b	1.5 TR	Nos	1		
c	2 TR	Nos	0		
Total					
GST					
Grand Total (A)					
Sr.	Description	Unit	Qty	Rate	Amount
LOW SIDE BOQ					
1	Installation of VRV or VRF ODU / IDU and other Accessories				
1.1	VRV or VRF Outdoor Units				
	Checking, Testing and Commissioning of VRV or VRF Out-door units System with R410A Refrigerant. Note: (The Prices of ODU installation are inclusive of commissioning of Refnet Joints for Outdoor Units).				
a	20 HP	No	4		
1.2	VRF of Indoor Units				
	Installation, Testing and Commissioning VRV or VRF Out-door units System with R410A Refrigerant. MS Frame for Indoor units complete with epoxy painting, vibration isolation pads, supports, hangers, railing brackets etc.				
1.3	3 Way Cassette Units with Cordless Remotes				
a	4.00 TR	Nos	10		
b	3.00 TR	Nos	0		
c	2.00 TR	Nos	6		
d	1.5 TR	Nos	0		
1.4	High wall unit				

a	1 TR	Nos	4		
b	1.5 TR	Nos	1		
c	2 TR	Nos	0		
1.5	Refnet Joints				
a	Installation, Testing and Commissioning of Refnet Joints for IDU & ODU	Nos	21		
2	Refrigerant Piping				
2.1	Supply, Installation, Testing and Commissioning of All refrigerant piping between indoor & outdoor units duly 19mm & 13mm insulated Nitral Rubber as per specifications shall be properly supported with hanger and exposed piping shall be properly supported. All piping shall be pressure tested for 1.5 times the working pressure.				
	Hard Piping	Rmt	378		
	Soft Piping	Rmt	413		
3	Frame Work				
3.1	Supply, Fabrication and Installation, Testing and Commissioning of MS base frame for outdoor units complete with epoxy painting, vibration isolation pads supports, hangers, perforated cable tray for outdoor cables and installation of cowl plugs etc. wherever required are parts of the Job .				
a	FOR 2 UNITS Each for 20 HP	No	4		
4	Drain Piping				
4.1	PVC Drain				
	Condensate Drain Water piping constructed out of PVC / HDPE hard pipes, fitting, accessories, bends, elbows, tees, flanges, tappings, wall sleeves, hangers, supports, anchors. The pipes to be duly insulated with 9mm Nitrile rubber insulation. The inclusion of 2 Nos of Drain Pumps are requisites of this works				
a	40 mm dia	Rmt	225		
b	25 mm dia	Rmt	110		
5	ELECTRICAL WORK				
5.1	CONTROL CABLES FOR BETWEEN IDU AND THEIR REMOTE				
	Supply & Installation of All control cables between indoor and their Remote laid in PVC pipe and clamped				
a	2 core x 1.5 sqmm YRY cable	Rmt	0		
5.2	Indoor Hanger	Nos.	0		
6	GI Sheet Cowl piece for Outdoor Unit	Nos.	0		
7	Commissioning Charges including Lifiting, Shifting & Positioning of All the IDU, ODU etc. for the perfect working and providing all the required test certifications are the Part of the works. .	Lot	1		
	Sub Total Low Side				
	GST				
	Total Low Side Work (B)				
1	1TR HWM Split Unit Invertor AC)Model FOR ATM				
1.1	Unit Cost (Excise+Transport)		0		
	GST				

	Grand Total (C)				
1.3	Installation Cost (Upto 12 Feet of Piping)			0	
1.4	Outdoor Stand & Caging with Lock & Key facility			0	
1.5	water outlet using Soft and Hard CPVC Piping of 32 mm and 19			0	
1.6	Extra Copper Pipeing as per standard norms (In mtrs)			0	
	Total				
	GST				
	Grand Total (D)				
<p>The Essentials of the works include the submission of the entire drawings before the start of the works and after the completion of works. The Approval of the modules and modals used in the works, the submission of the PERT Chart and the authentic letter of complkction of the Testing works at Site are the main requirements of the works. The AMC Services are to be provided by the vendor for this works for 1 complete year after the date of certification and approval of completion letter by the appointed Architect/ Consultant.</p>					
	COMPREHENSIVE AMC FOR THE AIR CONDITIONERS				
	CAMC Details after Warranty Period				
	Comprehensive annual maintenance charges for AC units AFTER DEFECT LIABILITY PERIOD OF 1 YEAR.				
	VRF/VRV AC INDOOR AND OUTDOOR Units	Year	Cap. (HP)	Rate in Rs. per HP (Excluding GST)	Net Amount in Rs.
		1st year	16		
		2nd year	16		
		3rd year	16		
		4th year	16		
		5th year	16		
	TOTAL				
	GST				
	GRAND TOTAL (E)				
	GRAND TOTAL (A+B+C+D+E)				