## SASTRI NAGAR BRANCH VRF TYPE AIR-CONDITIONING SYSTEM INCLUDING ALL REQURIED ANCILLARY WORK:-S.No Description Quantity Unit Rate Amount PART A) ANNEXURE – I : HIGH SIDE : EQUIPMENTS: Preambles All Items shall be quoted in the given format. Client reserves the right to take any item as client supplied Client reserves the right to add or delete any item from the tender during or after the finalization of the tender. Boq items shall be read with the technical specifications In case of discrepancy in Boq and technical specifications the stringent shall be followed. Control cable from outdoor unit to indoor unit (condenser to evaporator) with necessary insulating tape etc. It is advice to visit the site before quoting the boq MS Powder coated bracket with fasteners to be fixed on walls / slab with all necessary fixing accessories ALONG WITH ANIT VIBRATION CUSHOR FOOT MOUNTING ONLY. The Items in the Boq may or may not be operated as per site conditions. 10 Any deviation with respect to boq shall be informed and mentioned while quoting TENDER. Insulation shall be done properly with vapour barrier and to provide 11 mechanical protection against abrasion. Indoor unit shall be considered with required structural support to 12 hang in ceiling or floor / loft with anchor fasteners, rubber gaskets. nuts, bolts, inlet outlet connections Treated fresh air unit shall be considered with MERV 13 pre filter 13 Copper piping shall be considered with T and Y joints with 14 15 in a liquid a liquid shall be DX type unless otherwise mentioned. 16 Any item missed in the tender for competing the installation, testing, commissioning of the complete HVAC system all also to be included. CARRIER / BLUE STAR / HITACHI / TOSHIBA MITSUBUSHI / DAIKIN -VRF UNITS : FULLY INVERTER Supply Installation, commissioning & testing of VRF Multi- split systems as specified and complete with the following and suitable for cooling DX VRF OUTDOOR UNITS: a) Outdoor units complete with DC Twin rotary compressors FULLY DIGITIAL BASED SCROLL COMPRESSOR with atleast 2 x 100% inverter compressors cooling only etc as specified latest technology fully inverter based compressor. Each Outdoor Unit will require minimum 2 Nos. Fully Inverter Compressor Environmental friendly (HFC) refrigerant. : REFRIGERANT GREEN GAS c) The required distribution board with required isolators to supply power two both ODU in a MS fabricated & Powder Coated Enclosure of IP 65 Protection with weatherproof canopy. d) with Required cowl piece on fan discharge. VRF Modular Type Outdoor unit 18 HP Top discharge: Space Saver Sets Compact Model ONLY. VRF INDOOR UNITS: Indoor units of types mentioned below complete with Panel - Grill, cordless remote controller, mounting arrangements, drain FOUR WAY COMPACT CASSETTE AC's VRF Indoor Units : 2.0 TR Capacity Four Way Cassette AC Nos 3.0 TR Capacity Four Way Cassette AC Nos 1.5 TR Capacity Four Way Cassette AC Nos SITC of Centralise digital screen remote controller Sets SPLIT AC's NON VRF Indoor Units:

a	1.5 TR Capacity Hi Wall 5 star split AC with minimum 3 mtr Copper pipe and 5 mtr control cable etc as reqd.	Nos	0	
	TOTAL PART A			

## PART B) ANNEXURE – II : LOW SIDE ANCILLARY INSTALLATION WORK :

Schedule of Ancillary Works & Price : FOR INSTALLATION & ITS ANCILLARY WORK :

.No	Description	Unit	Quantity	Unit Rate	Amount
			1	Rs.	Rs.
	APPROX, INSTALLATION BREAK UP				
	Hard Copper Piping with 19mm thick nitrile rubber "O" Class				
	insulation and necessary supports: minimum 18 G Hard COPPER				
	PIPES Make Of Copper Pipes: Mandev / Rajco / Max Flow /				
	Totaline Only & With "O" Class 19 mm thick Insulation make				
	"Superlon / Armaflex": Piping material shall Confirm to ASTM B280 Standards: For VRF System as per following dimension:				
1	, 1	DMT	100		+
<u>1</u> 2	6.4 to 31.05 mm	RMT	100		
2	Copper piping for non VRF Split AC Units(suction and liquid) i/c all accessories	RMT	0		
	Control Cabling between Indoor & Outdoor Units (3 CORE X 1.5				
	SQMM SHEILDED CABLE ) CABLE MAKE "POLYCAB /		100		
	FINOLEX." - Laid in Conduits Pipe Only.	IXIVI I	100		
	Control Cabling between Indoor & Outdoor Units for Non VRF Split				
	Acs	RMT	0		1
	Hand LIDVC Ducin mining with 6 mm Dukhon Nituila Class "O"				†
	Insulation Make "Plasto/ Supreme" 32 mm dia.	RMT	90		1
	·	RMT	0		1
	Supply & Laying of 300 mm Width GI Tray fabricated with 16 G				Ī
	Thick perforated sheet for laying of copper piping / electrical		30		
	cabling / drain piping etc.				
	MS stand for Outdoor Units WITH PROVISION OF ANTI				
	VIBRATION CUSHOR FOOT MOUNTING FOR MACHINE &				
	Hanging Stand For Indoor Units with required MS frame				
	arrangements only : MS "C" Channel Structure Type as per site		1		
	requirement only - Fabricted with MS "C" Channel only & fabricated				
	hanging stand for Indoor Units, DX Units for mounting of				
	independent Outdoor units as require.				
	MS Powder coated bracket with fasteners to be fixed on walls / slab				
	with all necessary fixing accessories ALONG WITH ANIT	Nos	0		
	VIBRATION CUSHOR FOOT MOUNTING ONLY for Non VRF Split AC Units				
	Installation, Testing & Commissioning Of Non VRF AC Units				+
	1.5 TR Capacity Split AC	Nos	0		+
	Standard Installation / Pressure Testing / Vaccumissing /	1105	U		+
	Commissioning				
	Leak Testing of Outdoor Machines for inverter Compressors				
	complete with provisiong of anti-vibration isolators pads for				
	complete machine etc.				
1	18 HP OUTDOOR UNITS.	Sets.	1		
)	Installation, Testing & Commissioning Of Cassette AC's Type VRF				
	Indoor Units:				
	3.0/2.0 TR Capacity Four Way Cassette AC	Nos	6		1
	1.0/1.5 TR Capacity Four Way Cassette AC	Nos	2		
	Constant of Fig. Of D. C. and J. A. and J. and J. A. and J. and J. A. and J. And J. And J. A. and J. A. an	Nina	7		
	for VRF units only.	Nos			
	SITC of digital timer i/c all necessary accessories etc as reqd.	Nos	0		
	bifting Shifting of Indoor & Outdoor Unite On The rage Lavelwith all	LOT	1		
14	accessories, Indoor units, outdoor units, Copper pipes, stands,				
	Control cablies etc including Buying back of above all and	Nos	1		
	transporting etc as reqd.				
15	Dismantling of Existing Split AC Units along with all accessories,				
	Indoor units, outdoor units, Copper pipes, stands, Control cablies etc	Nos	2		
	including Buying back of above all and transporting etc as reqd.				

## Sheet1

	Providing Comprehensive annual maintenance for Airconditioning units which includes servicing and repairing of all the Airconditioning units by predefined frequency. The AMC Period will				
16	start after completion of 1 year warranty period.				
	For 1st Year	TR	15		
	For 2 <sup>nd</sup> Year	HP	15		
	For 3 <sup>rd</sup> Year	HP	15		
	For 4th Year	HP	15		
	For 5 <sup>th</sup> Year	HP	15		
	Providing Comprehensive annual maintenance for Airconditioning units which includes servicing and repairing of all the Airconditioning units by predefined frequency. The AMC Period will start after completion of 1 year warranty period.	Tonnos	0		
	TOTAL PART B				
	TOTAL PART A+B			•	