MINI RACPC RAHATA

VRF TYPE AIR-CONDITIONING SYSTEM INCLUDING ALL REQURIED ANCILLARY WORK:

S.No Description PART A) ANNEXURE – I : HIGH SIDE : EQUIPMENTS:

Unit Quantity Unit Rate

Preambles

- 1 All Items shall be quoted in the given format.
- 2 Client reserves the right to take any item as client supplied
- 3 Client reserves the right to add or delete any item from the tender during or after the finalization of the tender.
- 4 Bog items shall be read with the technical specifications
- In case of discrepancy in Boq and technical specifications the stringent shall be followed.
- 6 Control cable from outdoor unit to indoor unit (condenser to evaporator) with necessary insulating tape etc.
- 7 It is advice to visit the site before quoting the boq
- 8 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.
- 9 The Items in the Boq may or may not be operated as per site conditions.
- 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 mechanical protection against abrasion.
- Indoor unit shall be considered with required structural support to hang in ceiling or floor / loft with anchor fasteners, rubber gaskets, nuts, bolts, inlet outlet connections
- 13 Treated fresh air unit shall be considered with MERV 13 pre filter
- 14 Copper piping shall be considered with T and Y joints with insulation.
- All AHUs except VRF ductable unit shall be DX type unless otherwise mentioned.
- Any item missed in the tender for competing the installation, testing, commissioning of the complete HVAC system all also to be included.

1 CARRIER / BLUE STAR / HITACHI / TOSHIBA / MITSUBUSHI / DAIKIN -VRF UNITS : FULLY INVERTER ONLY :-

Supply Installation, commissioning & testing of VRF Multi-split systems as specified and complete with the following and suitable for cooling

DX VRF OUTDOOR UNITS:

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 Only. Environmental friendly refrigerant. (HFC) R410 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 36 HP Top discharge : Space Saver Sets 1.1 1 Compact Model ONLY. **VRF INDOOR UNITS: Indoor units of types mentioned below** 2 complete with Panel - Grill, cordless remote controller, mounting arrangements, drain pump etc. FOUR WAY COMPACT CASSETTE AC's VRF Indoor Units: 2.1 2.0 TR Capacity Four Way Cassette AC Nos 14 a 1.5 TR Capacity hi wall Split AC Nos 1 3 SITC of Centralise digital screen remote controller 2 Sets 4 SPLIT AC's NON VRF Indoor Units: 1.5 TR Capacity Hi Wall 5 star split AC with minimum 3 mtrs Nos 0 Copper pipe and 5 mtr control cable etc as regd. **Description** Unit **Quantity Unit Rate** S.No APPROX. INSTALLATION BREAK UP 1 Hard Copper Piping with 19mm thick nitrile rubber "O" Class insulation and necessary supports: minimum 18 G Hard COPPER PIPES Make Of Copper Pipes: Mandey / 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 6.4 to 31.05 mm **RMT** 150 1.2 Copper piping for non VRF Split AC Units(suction and liquid) i/c all RMT 0 accessories 2 Control Cabling between Indoor & Outdoor Units (3 CORE X 1.5 SQMM SHEILDED CABLE) CABLE MAKE "POLYCAB / RMT 120 FINOLEX." - Laid in Conduits Pipe Only. 3 Control Cabling between Indoor & Outdoor Units for Non VRF Split 0 Acs Hard UPVC Drain piping with 6 mm Rubber Nitrile Class "O" RMT 100 4 Insulation Make "Plasto/ Supreme" 32 mm dia. 5 Hard UPVC Drain piping for Non VRF AC Units **RMT** 0 Supply & Laying of 300 mm Width GI Tray fabricated with 16 G 30 Thick perforated sheet for laying of copper piping / electrical cabling RMT / drain piping etc. 6

Rs.

c

a

a) Outdoor units complete with DC Twin rotary compressors / FULLY DIGITIAL BASED SCROLL COMPRESSOR with atleast 2

7	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 requirement only - Fabricted with MS "C" Channel only & fabricated hanging stand for Indoor Units, DX Units for mounting of independent Outdoor units as require.	Nos	2	
8	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 for Non VRF Split AC Units	Nos	0	
8 a	Installation, Testing & Commissioning Of Non VRF AC Units 1.5 TR Capacity Split AC	Nos	0	
9	Standard Installation / Pressure Testing / Vaccumissing / Commissioning			
9.1	Leak Testing of Outdoor Machines for inverter Compressors complete with provisiong of anti-vibration isolators pads for complete machine etc. 36 HP OUTDOOR UNITS.		1	
10	Installation, Testing & Commissioning Of Cassette AC's Type VRF Indoor Units :		-	
a	3.0/2.0 TR Capacity Four Way Cassette AC	Nos	14	
b	1.0/1.5 TR Capacityhi wall splitAC	Nos	1	
11	Supply & Fixing Of Refrigerant Joints as per company STD. material for VRF units only.	Nos	14	
12	SITC of digital timer i/c all necessary accessories etc as reqd.	Nos	1	
13	Lifting Shifting of Indoor & Outdoor Units On Terrace Lavel.	LOT	1	
14	Dismantling of Existing cassette AC Units along with all accessories, Indoor units, outdoor units, Copper pipes, stands, Control cablies etc including Buying back of above all and transporting etc as reqd.			0
15	Dismantling of Existing Split AC Units along with all accessories, Indoor units, outdoor units, Copper pipes, stands, Control cablies etc including Buying back of above all and transporting etc as reqd.			0
16	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.	ЦD	26	
	For 1st Year	HP	36	
	For 2nd Year	HP	36	
	For 3rd Year	HP	36	
	For 4th Year	HP	36	
	For 5th Year	HP	36	

TOTAL