SBI – N-4 CIDCO BRANCH:

HVAC WORK FOR SBI :- PROVISION OF VRF TYPE AIR - CONDITIONING SYSTEM INCLUWORK :-

S.No Description Unit Qua

PART A) ANNEXURE – I : HIGH SIDE : EQUIPMENTS PARTS : SCHEDULE OF EQUIPMENT & PI

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 Boq items shall be read with the technical specifications
- 5 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 OR during prebid meeting
- 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 <u>CARRIER / MITSUBUSHI / TOSHIBA / HITACHI / O GENERAL -VRF UNITS :</u> FULLY INVERTER ONLY :-

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

DX VRF - MODULAR TYPE OUTDOOR UNITS:

- a) Outdoor units complete with DC Twin rotary compressors / FULLY DIGITIAL BASED SCROLL COMPRESSOR with atleast 2 x 100% inverter compressors IN EACH OUTDOOR UNITS cooling only etc as specified latest technology fully inverter based compressor.
- b) Environmental friendly refrigerant. (HFC): R410 REFRIGERANT GREEN GAS

	a) The many ined distribution beauty with many inedical stans to assent a new two both ODIA	ſ	
	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.		Ī
	d) with Required cowl piece on fan discharge.		Ī
1.1	VRF Modular Type Outdoor unit 16 HP Top discharge: Space Saver Compact Model ONLY.	Sets	1
2	VRF INDOOR UNITS: Indoor units of types mentioned below complete with		Ī
2.1	Panel - Grill, cordless remote controller, mounting arrangements, drain pump etc. FOUR WAY COMPACT CASSETTE AC's VRF Indoor Units:	-	
2.1 a	2.0 TR Capacity Four Way Cassette AC	Nos	5
a b	1.5 TR Capacity Four Way Cassette AC	Nos	3
c	1.0 TR Capacity Four Way Cassette AC	Nos	2
C	NON VRF SPLIT Acs	1105	
a	1.5 TR 5 STAR INVERTER Type Capacity Split AC with 3 Mtr Copper piping and 3mtr	· Nos	2
u	Control cable	1105	-
	TOTAL BASIC COST		Ī
PART	B) ANNEXURE – II: LOW SIDE ANCILLARY INSTALLATION WORK:		
11111	D) AINTERCRE II. LOW SIDE IN CILLERINI IN STREET WORK.		
Schedi	ule of Ancillary Works & Price: FOR INSTALLATION & ITS ANCILLARY WORK	:	Ī
S.No	Description	Unit	Qua
	•		Ī
	ADDDON INICTALL ATION DDE ALZ LID		
1	APPROX. INSTALLATION BREAK UP Hard Copper Piping with 19mm thick nitrile rubber "O" Class insulation and necessary	-	ļ
1	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	6.4mm to 28.6 mm	RMT	130
2	Control Cabling between Indoor & Outdoor Units (3 CORE X 1.5 SQMM SHEILDED	,	
	CABLE) CABLE MAKE "POLYCAB / FINOLEX." - Laid in Conduits Pipe Only.	RMT	110
	Hard UPVC Drain piping with 6 mm Rubber Nitrile Class "O" Insulation Make "Plasto/	DIAT	80
3	Supreme" 32 mm dia.		
	Supply & Laying of 300 mm Width GI Tray fabricated with 16 G Thick perforated sheet	t DMT	55
4	for laying of copper piping / electrical cabling / drain piping etc.	KIVI I	33
	MS stand for Outdoor Units WITH PROVISION OF ANTI VIBRATION CUSHOR	_	
	FOOT MOUNTING FOR MACHINE & Hanging Stand For Indoor Units with required	l	
	MS frame arrangements only: MS "C" Channel Structure Type as per site requirement		1
_	only - Fabricated with MS "C" Channel only & fabricated hanging stand for Indoor Units,	,	
5	DX Units for mounting of independent Outdoor units as require.		
6	Standard Installation / Pressure Testing / Vaccumissing / Commissioning		
_	Leak Testing of Outdoor Machines for inverter Compressors complete with provisiong of	Ĩ	
7	anti-vibration isolators pads for complete machine etc.	0 -4-	1
7.1	16HP OUTDOOR UNITS. Installation Testing & Commissioning Of Cossetts A Cla Type VPE Indeed Units.	Sets.	1
8	Installation, Testing & Commissioning Of Cassette AC's Type VRF Indoor Units:		
8.1	FOUR WAY COMPACT CASSETTE AC's VRF Indoor Units:		10
_	1.5/0.0 TD C		
a	1.5/2.0 TR Capacity Four Way Cassette AC Supply & Fixing Of Refrigerent Lints as not company STD, material for VRF units	Nos	10
a 9	1.5/2.0 TR Capacity Four Way Cassette AC Supply & Fixing Of Refrigerant Joints as per company STD. material for VRF units only.		9

10	Lifting Shifting of Indoor & Outdoor Units On Terrace Lavel.	LOT	1
11	Providing Comprehensive annual maintenance for Airconditioning units which is servicing and repairing of all the Airconditioning units by predefined frequence AMC Period will start after completion of 1 year warranty period.		
	For 1st Year	HP	16
	For 2nd Year	HP	16
	For 3rd Year	HP	16
	For 4th Year	HP	16
	For 5th Year	HP	16
	TOTAL BASIC INSTALLATION COST TOTAL PROJECT VALUE (EXCLUDING GST) SUPPLY + INSTALLATIO	N (A+R)	

TOTAL PROJECT VALUE (EXCLUDING GST) SUPPLY + INSTALLATION (A+B)