Air-Conditioning estimate for the KEMS Corner

Sr. n	10	Particulars Particulars	Qty	Nos.
		Supply of Out Door Units suitable for VRF / VRV		
1		System		
		Completed Made detination and department of the countries and		
		Supply of Modulating outdoor units, with multi scroll		
		compressors (minimum two compressors) with inverter		
		type compressor, special pre-coated fins, panel,		
		corrosion resistant (suitable for seaside installation)		
		coated condenser, inverter-based condenser fan M.S.		
		hot dip galvanized stands / supports, electrical &		
		microprocessor panel, isolating valves and all the		
		necessary accessories for proper functioning of the units,		
		having following approximate capacities. Outdoor units		
		suitable for following capacities:		
		Note: Fins and copper tubes of Air Cooled Condenser		
		along with copper tubing / piping with all joints and U-		
		Bends exposed to coastal areas corrosive atmosphere /		
		aggressive ambient, shall be painted with special		
		corrosion prevention coating either in factory or at site		
		Note: Fins and copper tubes of Air Cooled Condenser		
		along with copper tubing / piping with all joints and U-		
		Bends exposed to coastal areas corrosive atmosphere / aggressive ambient, shall be painted with special		
		corrosion prevention coating either in factory or at site		
		Corrosion prevention coating either in factory or at site		
	i	12 HP VRF ODU	1	No
		Supply of VRF based Indoor units complete with		
		remote and all accessories, Vibration isolators & supports.		
		The indoor unit shall be suitable for a power		
2		supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz		
		4-way Cassette Type Indoor Units, unit shall		+
		be complete with wireless remote controller		
		The state of the s		
	i	3TR	4	nos
	ii	1.0TR	1	nos
3		Refnet Joints		<u> </u>
		Supply of Refnet	4	nos
		Joints (4 Pl 907AP) A:	1	
		Supply, Of 1.5 TR SPLIT Type (1 Phase,3STAR) Air		
4		Conditioning Units.		

		Supply, of 1.5 TR SPLIT type (1 phase,3STAR) air conditioning units comprising of indoor unit, outdoor unit, first fill of refrigerant gas, thermostatic control, safety cut outs, corded remote for unit operation, condenser and evaporator mounting stand, insulation of refrigerant piping, drain piping and any other accessories required for installation Note: The rates quoted above shall include the cost of indoor units, mounting brackets, first charge of gas. Materials like fittings, clamps, supports, U trap in drain piping with necessary slope etc., minor civil work like opening in the walls for piping and cables and finishing the same. pipes & cables between through wall shall be taken through sleeves and plugged to avoid leakages, condenser mounting with all accessories vibration mounting pads etc., piping and cabling connections at indoor.		
	i	1.5TR	2	nos
	ii	1.0 TR	4	nos
		SECTION 'A' TOTAL	4	nos
		SECTION A TOTAL		
		B-SECTION		
		Installation of VRF/ VRV system		
1		Installation, Testing and Commissioning of Out Door Units suitable for VRF / VRV System & -Price shall inclusive of Refrigerant charge, LIFTING SHIFTING OF ALL VRF UNITS, and other necessary accessories Pressure Testing, Nitrogen flushing, gas charging (R410A), testing & commissioning of the air-conditioning system		
	i	12 HP VRF ODU	1	no
2		Installation, Testing and Commissioning of Indoor Units suitable for VRF / VRV System. Costs shall include hanging / mounting arrangements for the respective IDUs and shall also include for wall mounting of remote controllers near respective units and LIFTING SHIFTING, ERECTION.		
		4-way Cassette Type Indoor Units, unit shall be complete with wireless remote controller		
	i	3TR	4	nos
	ii	1.0TR	1	nos
3		REFRIGERANT PIPING FOR VRF		
		Supply, installation, testing & commissioning of the insulated refrigerant piping for all the units as per specifications with insulation of thick Nitrile rubber throughout the running length of the refrigerant piping with supporting arrangements		

	1	•		
	i	Hard & Soft Pipe with insulation – 19 mm thick for suction	60	mtrs
	ii	Hard &Soft Pipe with insulation – 13 mm thick for liquid	60	mtrs
		REFRIGERANT PIPING FOR SPLIT AC UNIT		
		Supply & installation for additional Hilton insulated hard/soft		
		copper refrigerant piping complete with fittings, elbows,		
		bends, supporting arrangement on walls, cable trays.		
		(separate for each unit) Hot side + cold side piping will be		
		measured as one length existing copper Refringent piping for		
		1.5/1.0TR Hi wall type unit will be measured beyond 5mtrs		
4	l.	of each unit.	40	mtrs
	а	CONTROL CABLING FOR VRF	40	111113
3	а	CONTROL CABLING FOR VRF		
		Completing to the grant of the control		
		Supply, installation, testing & commissioning of the control		
		cabling from indoor to outdoor unit .& from indoor to outdoors		
		unit and from outdoor to central controller 2 cX0.75 sq. mm.		
		shielded communication cable	80	mtrs
	b	CONTROL CABLING FOR SPLIT AC UNIT		
		Supply, installation, testing & commissioning of Power &		
		control cabling required from indoor unit to outdoor unit.		
		Power supply will be made available near the indoor unit		
		only. Power & control cabling for 1.5TR highwall type unit		
		1 .		
		will be measured beyond 5mtrs of each unit. DRAIN PIPING FOR VRF & SPLIT AC UNIT		
<u>о</u>	а			
		Drain water piping work out of PVC/HDPE hard pipes		
		covered with Hilton insulations, complete with fittings, bends,		
		elbows, tees flanges, tappings, wall sleeves, hangers,		
		supports, anchors		
		NOTE- Drain piping for 1.5/1.0TR Hi wall type unit will be		
		measured beyond 4mtrs of each unit		
	i		60	mtrs
7		Fresh air with cowl	4	nos
8		GI CABLE TRAY 200mm wide,22swg	30	mtrs
9		CONDENSING UNIT STANDS FOR VRF & SPLIT AC UNIT		
		Supply and installation of condensing units stand on roof		
		level to install the condensing units 300 mm above roof finish		
		<u> </u>		
		floor. Condensing units stand should be manufactured out of		
		heavy gauge MS channel frame work and painted with 2		
		coats of epoxy primer & 2 coats of anticorrosive paint with		
		epoxy painting, vibration isolating pads, supports, hangers,		
		railing, brackets etc. suitable for the above VRF &SPLIT AC		
		units.		
	i	12 HP VRF ODU	1	no
	ii	1.5 TR SPLIT AC UNIT	2	nor
	ii		4	nos
10		REFREGERENT 410 GAS FOR VRF	15	KG
			,	
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11	Dismantling of Existing Ac Units and Ducting, Piping Etc	1	JOB
12	Core Cuttings	1	Nos
13	FLEXIBLE CU CABLING 1.5 SQ MM X 3 CORE	30	mtrs
14	CU CABLING 16 SQ MM X 4 CORE FROM ODU TO DB	10	mtrs
	SECTION 'B' TOTAL		

SIGNATURE & STAMP OF VENDOR

ANNEXURE			
TOTAL OF HIGH SIDE-A			
TOTAL OF LOW SIDE-B			
GRAND TOTAL (A+B) (Excluding GST)			
GST ON SIDE A(28%)			
GST ON SIDE B(18%)			
Total after GST			

RECOMMENDED BRANDS:

- 1. Daikin
- 2. Carrier
- 3. Mitsubishi Heavy
- 4. Blue Star
- 5. Hitachi
- 6. Mitsubishi Electric
- 7. Voltas
- 8. Toshiba