

SCHEDULE OF QUANTITIES					
Name of work:HVAC System for the Proposed DRT premises Bangalore					
VRF type Air-Conditioning System					
SNO	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	Supply, Installation, Testing and commissioning of Inverter control VRF type air-conditioning with high efficiency Scroll Compressors. The outdoor unit shall be designed to work on variable refrigerant circulation depending on the actual load sensing. The unit shall have minimum 2 Compressors each and all compressors capacity shall be variable in each outdoor module, in multi modular combination, together with a variable capacity compressors to deliver rated capacity. The variable capacity compressor shall be of inverter control as per manufacturer's design. The condenser coil and condenser fan shall be sized to work even at 52°C ambient without tripping. The condenser fins shall be coated with anti corrosive material for longer life. The unit shall have oil arrestor to prevent oil migration. Suction accumulator and liquid receiver shall be provided to balance variable refrigerant circulation. The unit shall also meet CPCB norms on noise and Air pollution levels etc., as required. The system shall operate with only two pipes i.e., suction and liquid line that can be connected to multiple indoor units. The intelligent microprocessor based control system shall maintain the communication between indoor and outdoor units to operate the compressors in most efficient way and to keep the equal running time for constant speed compressors. The unit shall work with only R 410A refrigerant gas and on 415V / 3Ph / 50Hz AC power supply. (All components shall be mounted on welded steel base frame, structural steel profiles/panels made out of galvanized sheet steel, protected with primary coat & finished with acrylic paint including M.S Stand for ODU at Terrace level)				
(a)	Outdoor Unit (ODU) of following capacity, single or in combination of modular units and suitable electrical & Refrigerant interconnection, initial charge of refrigerant R 410 A and ready for use with single point Electrical supply & refrigerant suction/Liquid line tapping i/c topping up of refrigerant in the system etc. as required. The COP of the machine shall be Close to 4 .Make; Bluestar/Daikin/Toshiba/Carrier				
a	16 hp (Cooling capacity 153600 BTU/hr)	4	each		
2	Supply, installation, testing and commissioning of Ceiling Mounted following capacity Cassette type Indoor Unit with decorative panel, compact cooling coil, electronic expansion valve, three speed fan motors, dynamically balanced blowers, provision for Fresh Air Intake, drain pump, synthetic washable media filter including insulation and suitable for operation on single/three phase AC supply & remote control operation etc as required.				
a	Capacity 1.0TR (Cooling Capacity 12000 BTU/ HR) Hi wall split	4	each		
c	Capacity 1.00 TR (Cooling Capacity 12000 BTU/ HR) COMPACT CASSETTE 4 WAY 600X600 DIMENSION	2	each		
c	Capacity 1.50 TR (Cooling Capacity 18000 BTU/ HR) COMPACT CASSETTE 4 WAY 600X600 DIMENSION	14	each		
d	Capacity 2 TR (Cooling Capacity 24000 BTU/ HR) 4 WAY CASSETTE 950X950 DIMENSION	6	each		
e	Capacity 3.00 TR (Cooling Capacity 36000 BTU/ HR) 4 WAY CASSETTE 950X950 DIMENSION	8	each		
3	Supplying and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with Class - 'O' nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports inside the building and with MS frame work made of 35 x 35 x 5 mm angle iron in the terrace i/c painting etc complete as required. (The correct size of pipe has to be worked out by the vendor and the number of circuits for each floor shall match the vendors equipment.)				

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