

BOQ FOR AIR CONDITIONING WORK

JIPMER CAMPUS

SI No	Description of items	Unit	Qty	Rate	Amount
	PART A				
	SPLIT TYPE AIRCONDITIONERS				
1.00	Supply, installation, testing and commissioning of Air Cooled High Wall mounted Split type Air Conditioner (inverter type) of following capacity consisting of high wall mounted type room unit (fan coil) with cordless remote control and outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, fixing the outdoor unit on a raised platform as per manufacturers recommendation and fixing of room (fan coil) unit on wall, standard 3.5 m distance refrigerant copper piping with 13mm nitrile rubber insulation, providing and making interconnection between room & condenser as per site conditions, comprising of full electrical cabling from power plug near indoor unit and to outdoor unit, ODU MS				
1.01	2 TR 5 star rated as per BEE	Nos	25.00		
1.02	1.5 TR 5 star rated as per BEE	Nos	35.00		
1.03	1 TR 5 star rated as per BEE	Nos	14.00		
2.00	Supply, installation, testing and commissioning of copper refrigerant piping with 13 mm thick nitrile rubber insulation interconnecting the Condensing unit to evaporating unit for split units as per site				
2.01	Copper refrigerant piping for 2 TR machine of suitable size 5/8" & 1/4".	Rmt	200.00		
2.02	Copper refrigerant piping for 1 TR & 1.5 TR machine of suitable size 1/2" & 1/4".	Rmt	300.00		

3.00	Voltage Stabilizer 5 KVA rating suitable for 2TR Split AC Units with Overcurrent & Under voltage protection. (The input voltage is 230V ± 10% AC 50 c/s)	Nos	25.00		
4.00	Voltage Stabilizer 4 KVA rating suitable for 1TR and 1.5TR Split AC Units with Overcurrent & Under voltage protection. (The input voltage is 230V ± 10% AC 50 c/s)	Nos	49.00		
5.00	Supply, Laying and Fixing of control cabling of 3 core copper wire of 2.5 sqmm as required from Indoor to outdoor unit for all units as per specification.	Rmt	600.00		
6.00	Supply and installation of 20A-25A 3 pin metal clad plug and socket with 20A-25A MCB with suitable powder coated sheet steel enclosure with fixing accessories etc	Nos	71.00		
7.00	Supply and installation of PVC drain pipe ISI marked, connecting the drain lines from the indoor units to floor sump to be concealed or to be laid as per site required with as may be decided by Engineer-in-charge.				
7.01	25mm dia	Rmt	640.00		

PART B					
VRF TYPE AIRCONDITIONERS					
8.00	SITC of Modular type outdoor units equipped with highly efficient 100% inverter compressors. special acryl precoated heat exchanger, low noise condensor fan, precoated fin type heat exchangers air cooled condenser having internally grooved copper tubes and blue fin coated aluminium fins, System will be operated by Eco-friendly Refrigerant R-410A gas charged of entire system. All refrigerant piping, internal power cabling, earthing and control wiring all installed in a GI sheet metal housing finished with powder coating, suitable for all weather outdoor installation, making holes on walls & glass, scaffoldings, plastering etc., as per site requirement. Machine should be fitted with High Pressure Switch, Fan Driver Overload Protector, OverCurrent Relay, Inverter				
	34 HP	Nos	1.00		
9.00	Supply, installation, testing & commissioning of VRV/VRF High Wall indoor unit complete with cordless remote control, cooling coil, washable type filter, multispeed fan motor, electronic expansion valve, controls, decorative panel all complete as required. The blower shall be dynamically balanced and designed for silent operation The cost shall include power wiring from nearest power socket, with suitable bolts, nuts, clamps, making holes on walls, plastering etc., as per site requirement				
9.01	1.5 TR	Nos	3.00		
9.02	2 TR	Nos	11.00		

10.00	Supply, installation, testing and commissioning, Transmission/Communication cabling, of 2,3 or 4 core copper cable of the required gauge thickness, as required for interconnecting the Indoor and Outdoor Units of all the VRV/VRF Units for proper performance.	Rmt	250.00		
11.00	Supply, installation, testing and commissioning of interconnecting insulated copper tubing, for refrigerant liquid and suction lines between the Outdoor and Indoor Units complete, including fittings like elbows, reducers etc. and suitable wall / ceiling clamps as required for the complete installation and proper functioning of the VRV/VRF system. The suction lines shall be insulated with 19 mm thick and discharge lines shall be insulated with 13mm closed cell antimicrobial nitrile rubber flexible hose insulation.	Rmt	220.00		
12.00	Supply, installation, testing and commissioning of special refrigerant connection joint kits for taking branch connections to the various Indoor Units, as required, for the complete installation and proper functioning of the VRV/VRF system.	Nos	20.00		
13.00	Supply and installation of PVC drain pipe with insulation ISI marked, connecting the drain lines from the indoor units to floor sump to be concealed or to be laid as per site required with as may be decided by Engineer-in-charge.	Rmt	130.00		
Grand Total					
Rupees..... only)					

Note: The Bidder, at the Bidder's own responsibility and risk, is encouraged to visit the Site of Works and obtain all information necessary for preparing the Bid. The Bidder shall quote his price which should include GST. In case of discrepancy in the rates quoted in words and figures, the rates in words will be considered for evaluation.

Signature of Bidder with Seal and Date