

AIRCONDITIONING SCOPE OF WORK - SBI THAKUR VILLAGE BRANCH					
Sr. No.	Description	Qty	Unit	Rate	Amount
1	<b>Supply of Out Door/Indoors Units suitable for VRF / VRV System</b>				
	Supply of vrf outdoor units, with multi/single scroll compressors (minimum one/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				
1	1 20 HP TOP DISCHARGE	1	No		
2	Supply of VRF based Indoor units complete with remote control and all accessories, Vibration isolators & supports. The indoor unit shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz.				
	HIWALL				
	1.0TR	1	Nos		
	1.5TR	1	Nos		
	POWER CASSETTE				
	1.5TR	3	Nos		
	2.6TR	4	Nos		
3	<b>Supply, Of SPLIT Type (1 Phase, 5 STAR Inverter) Air Conditioning Units</b>				
	SUPPLYING OF following SPLIT (single/three phase) AIR CONDITIONERS- AIR-COOLED INVERTER 5 STAR TYPE having ODU & Single circuits with Scroll/rotary Compressors including indoor unit with fan, fan- motor, Copper cooling coil, expansion device, condensing unit, compressors, cond. coils, cond. Fans, safety cutouts, inbuilt control panel complete with contactors, relays, internal cabling, thermostat to control temperature & machine, having single Indoor unit & single Outdoor unit with display facility.				
1	1.0 TR H-WALL	2	Nos		
4	<b>Refnet Joints</b>				
	Supply of Refnet Joints	8	Nos		
5	<b>Controller</b>				
	Cordless type controllers	9	Nos		
<b>SECTION 'A' TOTAL</b>					
<b>B-SECTION</b>					
<b>Installation of VRF/ VRV system</b>					
1	Installation, Testing and Commissioning of Out Door Units suitable for VRF / VRV System & -Price shall inclusive of Pressure testing, LIFTING SHIFTING OF ALL VRF UNITS, and other necessary accessories Nitrogen Pressure Testing, Nitrogen flushing, necessary bracket with all required hardware etc complete. Testing & commissioning of the air-conditioning system				
1	20 HP TOP DISCHARGE	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.				
	Indoor Units, unit shall be complete with wireless remote controller				
	HIWALL				
	1.0TR	1	Nos		
	1.6TR	1	Nos		
	POWER CASSETTE				
	1.5TR	3	Nos		
	2.6TR	4	Nos		
	<b>Non - VRF Highwall Uit</b>				
	1.0TR	2	Nos		

3	<b>REFRIGERANT PIPING FOR VRF Units</b>				
	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				
	i Copper Ref. <b>Hard / soft pair Ref</b> piping pair (liquid+suction) of the required sizes for all the units with refnets as per specs. The insulation shall be of 13mm thick Armaflex make through out the running length of Ref. piping. The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on GI cable trays supported from wall / roof with anchor fasteners & C type ms angle.	100	mtrs		
4	<b>REFRIGERANT PIPING FOR SPLIT Non-VRF AC UNIT</b>				
	1 Supply and erection of copper piping using copper (1mm thick) refrigeration pipe complete with bends, Elbows, Supports, Insulation etc. interconnecting indoor and outdoor units (both suction and discharge lines) along with necessary electrical copper wiring including earthing conductor in rigid PVC conduit.	40	mtrs		
5	<b>CONTROL CABLING FOR Non-VRF SPLIT AC UNIT</b>				
	1 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(3cX1.5 sq. mm.) (Polycab/RR/Havells)	50	mtrs		
6	<b>CONTROL CABLING FOR VRF Units</b>				
	1 Supply, installation, testing & commissioning of the communication cabling from indoor to outdoor unit .& from indoor to outdoors unit and from outdoor to central controller 2c X 1.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)	150	mtrs		
7	<b>DRAIN PIPING FOR ALL UNITS</b>				
	Drain water piping work out of PVC hard pipes covered with Hilton insulations, complete with fittings, bends, elbows, tees flanges, tappings, wall sleeves, hangers, supports, anchors (Price/Diamond/New India Trading)				
	1 25mm Pipe	30	Mtr		
	2 32mm Pipe	25	Mtr		
	3 40mm Pipe	25	Mtr		
10	M. S. Epoxy Painted Stand for <b>VRV Outdoor</b> Unit with screw, nut bolt anchor fastner etc. complete in all aspect. As per the instructions of the Architects/ Engineer				
	1 Heavy Duty Stand for VRF AC	1	Nos		
	1 Cage with platform type Heavy Duty Stand for Non VRF/split AC	2	Nos		
11	8 Gas charging and Testing & Commissioning charges alongwith topping-up of refrigerant	20	KG		
12	Core Cuttings & filling the same with cement and access	4	Nos		
13	Drain pump for Split Ac Throw capacity 600mm and above ( Approved Makes :- Aspen, V Gard, Value , SICCOM , Wipcool )	1	Nos		
15	Supply & Installation of <b>Digital Timer Switch</b> alongwith suitable size enclosure box for atm, etc. including power circuit wiring of (3x2.5 Sq.mm) FRLS flexible wires laid through PVC conduit taken from point including all necessary hardware & accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1	Nos		
<b>SECTION 'B' TOTAL</b>					
<b>ANNEXURE</b>					
<b>TOTAL OF HIGH SIDE-A</b>					
<b>TOTAL OF LOW SIDE-B</b>					
<b>GRAND TOTAL (A+B) (Excluding GST)</b>					