Air-Conditioning estimate for the SBI KATRAJ Branch, Mumbai

er no l	Air-Conditioning estimate for the SBI KATRAJ Branch, Muml Particulars		Noc
Sr. no	Supply of Out Door Units suitable for VRF / VRV	Qty	Nos.
	System Bluestar, Daikin, Mitsubishi Heavy, Mitsubishi		
	Electric , Carrier-TOSHIBA,HITACHI (No Midia, No		
1	logicool).		
- 1	Supply of Modulating outdoor units, with multi 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:		
	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		
i	12 HP VRF ODU	2	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		
	supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz		
2	14 way Cassetta Type Indeer Units unit shall		
	4-way Cassette Type Indoor Units, unit shall		
	be complete with wireless remote controller		
i	3.2/3.0 TR	6	nos
<del>'</del> ii	1.5 TR	2	nos
iii	1.0TR	2	nos
<del>-  </del> -	SUPPLYING OF following CASSETTE / SPLIT (single/three phase)		1
	AIR CONDITIONERS- AIR-COOLED TYPE having ODU & Single		
	circuits with Scroll/rotary Compressors including indoor unit with		
	remote control, fan, fan-motor, Copper cooling coil, expansion		
3	Device, condensing unit, compressors, cond. coils, cond. Fans,		
	safety cutouts, inbuilt contol panel complete with contactors,		
	relays, internal cabling, thermostat to control temperature &		
	machine, having single Indoor unit & single Outdoor unit with		
	display facility		<u> </u>
<u> i</u>	1.0-TR High Wall Split Unit GE rating of three star and above	2	nos
, <u>II</u>	1.5-TR High Wall Split Unit GE rating of three star and above	2	nos
4	Refnet Joints	10	
	Supply of Refnet Joints	10	nos
	SECTION 'A' TOTAL		
	OLUIZON A TOTAL		
	B-SECTION		
1	Installation of VRF/ VRV system		

, I	LINCTOLISTION LOCKING SING COMMISSIONING OF LIVE LOOK LINES CHIESDIO		
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, eco		
	friendly gas charging (R410A), testing & commissioning of the air-		
	conditioning system		
	12 HP VRF ODU	2	no
	Installation, Testing and Commissioning of Indoor Units suitable for		110
	VRF / VRV System. Costs shall include hanging / mounting		
	arrangements for the respective IDUs and shall also include for wall		
	•		
اء	mounting of remote controllers near respective units and LIFTING		
2	SHIFTING, ERECTION.		
	4-way Cassette Type Indoor Units, unit shall be		
	complete with wireless remote controller		
	2.2/2.070	_	
	3.2/3.0TR	6	nos
	,	2	nos
	i 1.0TR/1.5 TR Split AC	2	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		
	Suction & liquid line for outdoor to indoor unit: conbination of		
	Copper Ref. Hard piping & soft piping of the required sizes for all		
	the units with refnets as per specs. The insulation shall be of		
	19mm/13mm thick Armaflex make through out the running length		
	of Ref. piping. The piping shall be well supported at specific	180	mtrs
	intervals with GI supports with insulated PUF saddles and installed		
	· ·		
	on GI cable trays supported from wall / roof with anchor fasteners		
4	& C type ms angle.		
5	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	60	mtrs
	+ 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		
	7.		
	beyond 3mtrs of each unit.		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling	50	mtrs
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper	50	mtrs
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF	50	mtrs
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)	50	mtrs
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF Supply, installation, testing & commissioning of shielded	50	mtrs
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF  Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)  COMMUNICATION CABLING FOR SPLIT AC		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF  Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)  COMMUNICATION CABLING FOR SPLIT AC  Supply, installation, testing & commissioning of shielded		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF  Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)  COMMUNICATION CABLING FOR SPLIT AC  Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to		
	beyond 3mtrs of each unit.  CONTROL CABLING FOR VRF  Supply, installation, testing & commissioning of the control cabling from supply to outdoor unit .and from outdoor to central controller 4cX10.0 sq. mm. shielded communication copper cable(Polycab/RR/Havells)  COMMUNICATION CABLING FOR VRF  Supply, installation, testing & commissioning of shielded communication copper cabling required from indoor unit to outdoor unit. Power & control cabling for various VRF indoor unit type unit(3cX1.5 sq. mm.) (Polycab/RR/Havells)  COMMUNICATION CABLING FOR SPLIT AC  Supply, installation, testing & commissioning of shielded	150	Mtr

i	Drain water piping work out of 25/30 mm PVC/HDPE hard pipes covered with Hilton insulations, complete with fittings, bends, elbows, tees flanges, tappings, wall sleeves, hangers, supports, anchors	80	mtrs
7	Fresh air with cowl	3	nos
8	GI CABLE TRAY 200mm wide,22swg	40	mtrs
9	CONDENSING UNIT STANDS FOR SPLIT AC UNIT	4	Nos
10	CONDENSING UNIT STANDS FOR 12 HP VRF	2	Nos
11	REFREGERENT 410 GAS FOR VRF	20	KG
12	Core Cuttings	5	Nos
13	Remove the Existing 1.5 TR / 2 TR / 1 TR High Wall Split units & Refixed the same as per new location including shifting of outdoor unit Out door MS Stand, MS Bracket etc. As per the instructions of the Architects/ Engineer	1	Nos
14	Gas charging, minor repair and cleaning of the old AC of 1.5 TR / 2 TR / 1 TR High Wall Split units	1	Nos
15	Supply & Installation of 16A AC1, digital timer including power circuit wiring of (2x2.5 + 1x2.5Sq.mm) FRLS flexible wires laid through PVC conduit directly taken from DB including all necessary hardware & accessories, etc. complete as required. (Schneider / Hager / Siemens / Legrand make as approved by client / consultant)	1	Nos
16	4C x 16 Sq.mm Copper armoured cable with bare 12 swg GI wire from MCCB/ELCB to VRF Outdoor unit.	30	Mtr
	SECTION 'B' TOTAL		
	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		

SIGNATURE & STAMP OF VENDOR