



**STATE BANK OF INDIA,
RBO GHATKOPAR INVITES**

**TENDER DOCUMENT FOR PROPOSED
AIR CONDITIONING WORKS OF
SBI VIKHROLI (EAST) BRANCH**

THROUGH E-TENDERING PROCESS

**INVITE FROM EMPANELLED CONTRACTORS OF SBI, LHO, MUMBAI METRO IN APPROPRIATE
CATEGORY IS ONLY ELIGIBLE TO APPLY
(PROOF OF EMPANELMENT SHOULD BE SUBMITTED WITH TENDER)**

NOTE: FIRM SHOULD POSSESS VALID DIGITAL SIGNATURE FOR THIS E-TENDER.

PART – B: PRICE BID

: ARCHITECTS & CONSULTANTS:

SANDEEP GOVALKAR DESIGN ASSOCIATES
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AC WORKS OF SBI VIKHROLI (EAST) BRANCH

BOQ FOR PROPOSED AIR CONDITIONING WORKS OF SBI VIKHROLI (EAST) BRANCH

S No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	VRF OUTDOOR UNITS: Supply of Modulating outdoor units, with multi/single hermetically sealed scroll compressors (minimum one/two compressors) with inverter type compressor, low noise propeller type aero spiral fan, 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. The unit suitable for operation on R-410a/ Eco friendly refrigerant. The unit shall operate on 415 ± 10% Volts, 50 cycles, 3 phase, 4 wire AC supply. Outdoor units suitable for air over condenser temperature of 50deg.c 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				
	16 HP VRF ODU SIDE/TOP DISCHARGE	Nos	1		
2	Supply of VRF based Indoor units complete with cord less 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				
a	1.5 TR high wall split type Indoor Units	Nos	1		
b	2.0 TR 4-way Cassette type Indoor Units	Nos	4		
c	3.0 TR 4-way Cassette Type Indoor Units	Nos	2		
3	Supply of Refnet Joints set for suction & Liquid lines	Sets	6		
	High Side Works Total-A Excluding GST				
	Installation of VRF/VRV System				
4	Installation, Testing and Commissioning of 16 HP VRF ODU Out Door Units suitable for VRF / VRV System - Price shall inclusive of Pressure testing, Lifting, Shifting of all VRF UNITS, and other necessary accessories Pressure Testing, Nitrogen flushing, testing & commissioning of the air-conditioning system	Nos	1		

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S No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	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 and erecting etc				
a	1.5 TR high wall split type Indoor Unit	Nos	1		
b	2.0 TR 4-way Cassette type Indoor Unit	Nos	4		
c	3.0 TR 4-way Cassette type Indoor Unit	Nos	2		
6	REFRIGERANT PIPING FOR VRF- Supply, installation, testing & commissioning of the insulated refrigerant piping with Copper Ref. Hard piping pair (Liquid+ suction) Outdoor to refnet & refnet to refnet of the required sizes for all the units with refnets as per specs. The insulation shall be of 19mm/13mm thick approved make throughout the running length of Ref. piping. (19mm for suction & 13mm for liquid) 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. Both Liquid and Suction line will be measured as a single line	Rmt	90		
7	CONTROL CABLING FOR VRF Supply, installation, testing & commissioning of the control cabling from indoor to outdoor unit with Heavy duty 25mm PVC Conduit 3CX1.0 sq. mm. shielded communication copper Cable of approved make	Rmt	120		
8	DRAIN PIPING FOR VRF UNIT Drain water piping work out of following PVC/HDPE hard pipes covered with Hilton insulations, complete with fittings, bends, elbows, tees flanges, tappings, wall sleeves, hangers, supports, anchor				
a	32/ 25 mm PVC/HD	Rmt	110		
9	M. S. Epoxy Painted Stand for VRV Outdoor Unit with screw, nut bolt anchor fastener etc. complete in all aspect	Nos	1		
10	Supply & Gas top up with REFREGERENT 410 GAS FOR VRF	Kg	15		
11	Core Cuttings & filling the same with cement and access	Nos	2		
12	BUY BACK (amount paid to the Bank) Removing and Buyback of OLD/ beyond repairable AC units 1 TR/ 1.5 TR/ 2 TR as is where is condition from Branch after obtaining permission and approval of Bank's official	Nos	-3		
	Low Side Works Total-B Excluding GST				

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S No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
13	Comprehensive Annual Maintenance Contract (CAMC) for the Air Conditioning units installed after warranty / defects liability period of one year (i.e. 16 HP VRF indoor and out door units). This includes all spares, compressor, replenishing the refrigerant, Bimonthly servicing, any number visits if any problem occurs and scope as specified etc. Payment will be paid quarterly				
a	Second Year	HP	16		
b	Third Year	HP	16		
c	Fourth Year	HP	16		
d	Fifth Year	HP	16		
	Total-C- CAMC Cost Exclusive of GST				
	Total A+B+C Excluding GST				
	Discount if Any				
	Grand Total Excluding GST				