

**TENDER FOR PROPOSED AIRCONDITIONING WORKS FOR STATE BANK OF INDIA, SME GIRGAON BRANCH**

SR. NO.	PARTICULARS	QTY	UNIT	RATE	AMOUNT
[V]	<b>AIR CONDITIONING WORK</b>				
<b>A</b>	<b>HIGH SIDE</b>				
<b>1.0</b>	<b>Supply of VRF outdoor Units - Side Discharge</b>				
	Supply of Modulating 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, inverterbased 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. Complete as directed by the Architect/ Bank's Engineer. Make: Bluestar/ Carrier/ Mitsubishi/ Toshiba/ Hitachi/ Daikin				
(i)	08HP	1	NOS.		
(ii)	10HP	1	NOS.		
(iii)	12HP	1	NOS.		
<b>2.0</b>	<b>Supply of VRF Indoor Unit</b>				
<b>2.1</b>	<b>Hiwall unit</b> Supply, of SPLIT type (1 phase, 3STAR & above for split ) air conditioning units comprising of indoor unit, outdoor unit, first fill of refrigerant gas, thermostatic control, safety cut outs, corded remote for unit operation, condenser and evaporator mounting stand, insulation of refrigerant piping, drain piping and any other accessories required for installation Note: The rates quoted above shall include the cost of indoor units, mounting brackets, first charge of gas. Materials like fittings, clamps, supports, U trap in drain piping with necessary slope etc., minor civil work like opening in the walls for piping and cables and finishing the same. pipes & cables between through wall shall be taken through sleeves and plugged to avoid leakages, condenser mounting with all accessories vibration mounting pads etc., piping and cabling connections at indoor. Complete as directed by the Architect/ Bank's Engineer.				
(i)	<b>1.0TR</b>	1	NOS.		
<b>2.2</b>	<b>Ductable unit</b> complete with all accessories, Vibration isolators & supports. The indoor unit shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3. Complete as directed by the Architect/ Bank's Engineer.				
(i)	4.0TR	1	NOS.		
(ii)	5.0TR	1	NOS.		
(iii)	6.0TR	1	NOS.		

Tender for **Airconditioning** works of SBI's SME Girgaon **Branch**, Girgaon

SR. NO.	PARTICULARS	QTY	UNIT	RATE	AMOUNT
<b>2.3</b>	<b>Fourway Compact Cassette unit</b> Supply of Indoor Cassette/Compact Cassette (Suitable for Grid ceiling)/ HighWall Units, DC Inverter motor complete with Compact cooling coil, Electronic Expansion Valve & Mutispeed Fan motor. with speed contol for low noise, Auto Quiet mode also possible through wired remote,In-built drain pump with 1m lift,very flexiable installation even with deep celing beams.Electrical Details: 220-240V, 1phase, 50Hz AC The blower should be dynamically balanced & designed for silent operation . Filters shall be Plasma & synthetic washable media type arranged for convenient cleaning & replacement., built in drain pump.				
(i)	1.5TR	2	NOS.		
<b>3.0</b>	<b>TFA Ductable unit</b> Supply of DX Type Treated Fresh Air Unit 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. Make - MITSUBISHI / TOSHIBA / BLUESTAR / ZECO / AIRVISION/ZECO				
(i)	5.5TR	1	NOS.		
<b>4.0</b>	<b>Supply of Remote Control</b>				
(i)	Cordless Remote Controller	3	NOS.		
(ii)	Corded remote Controller	4	NOS.		
<b>5.0</b>	<b>Supply of Refnet for Indoor &amp; Outdoor Unit</b>	<b>4</b>	<b>NOS.</b>		
<b>6.0</b>	<b>Suppy of Inverter Non VRF -Hiwall unit 5 star</b> Supply of Aircooled Inverter 5* Star High wall Split type Airconditioners comprising Indoor Air Handling Unit, Outdoor Condensing unit, isolating valves, thermostatic control, safety cutouts, (condenser mounting stand excluded) and vibration isolation pads with Remote Controller. (Copper Pipes)				
(i)	1.5TR (Working+Stand by)	2	NOS.		
	<b>TOTAL OF A - HIGH SIDE</b>			<b>Rs.</b>	

<b>B</b>	<b>LOW SIDE</b>				
<b>1</b>	<b>Installation of VRF System</b> 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, gas charging (R410A), testing & commissioning of the airconditioning system. Complete as directed by the Architect/ Bank's Engineer.				
<b>1.1</b>	<b>VRF ODU unit</b>				
(i)	08HP	1	NOS.		
(ii)	10HP	1	NOS.		

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(iii)	12HP	1	NOS.		
<b>2.0</b>	<b>Installation of VRF Indoor Unit</b>				
<b>2.1</b>	<b>Hi Wall Unit Indoor Unit</b> I.T.C. of indoor Units suitable for VRF / VRV System. Price shall inclusive of transport, Pressure testing, LIFTING SHIFTING OF ALL VRF UNITS/split unit with making and finishing the hole of wall and other necessary accessories for Pressure Testing, Nitrogen flushing, testing & commissioning of the air-conditioning system.				
(i)	1.0TR	1	NOS.		
<b>2.2</b>	<b>Ductable Unit</b>				
(i)	4.0TR	1	NOS.		
(ii)	5.0TR	1	NOS.		
(iii)	6.0TR	1	NOS.		
<b>2.3</b>	<b>Fourway Compact Cassette Unit</b> I.T.C. of indoor Units suitable for VRF / VRV System. Price shall inclusive of transport, Pressure testing, LIFTING SHIFTING OF ALL VRF UNITS/split unit with making and finishing the hole of wall and other necessary accessories for Pressure Testing, Nitrogen flushing, testing & commissioning of the air-conditioning system.				
(i)	1.5TR	2	NOS.		
<b>3.0</b>	<b>TFA Ductable Unit</b> 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. Complete as directed by the Architect/Bank's Engineer.				
(i)	5.5TR	1	NOS.		
<b>4.0</b>	<b>Installation of Inverter Non VRF -Hiwall unit 3 star</b>				
(i)	1.5TR	2	NOS.		
<b>5.0</b>	<b>REFRIGERENT PIPING - VRF SYSTEM</b>				
(i)	Supply and Installation of VRF system copper piping Suction line with 19mm thickness insulation as per standard. All refrigerant piping shall be of copper tubes,bends ,couplers. Also all the copper piping to ne nitrogen tested with minimumn 400PSI.	95	RMT		
(ii)	Supply and Installation of VRF System copper piping Liquid line with 13mm thickness insulation as per standard. All refrigerant piping shall be of copper tubes,bends ,couplers. Also all the copper piping to ne nitrogen tested with minimumn 400PSI.	95	RMT		
<b>6.0</b>	<b>REFRIGERENT PIPING - Non-VRF System</b>				
(i)	Supply and Installation of Non-VRF system copper piping Suction line with 13mm thickness insulation as per standard. All refrigerant piping shall be of copper tubes,bends ,couplers. Also all the copper piping to ne nitrogen tested with minimumn 400PSI.	60	RMT		
<b>7.0</b>	<b>Communication Control Cabling between Indoor to outdoor unit.</b>				

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SR. NO.	PARTICULARS	QTY	UNIT	RATE	AMOUNT
(i)	Supply, Installation ,Testing & laying of VRF system communication copper 2core X 0.75sqmm sheilded flexible cabling between Indoor unit to Outdoor unit for communication with PVC Conduit pipe of minimumn 25mm and above diameter with required accessories.	150	RMT		
(ii)	Supply, Installation ,Testing & laying of Non-VRF system communication copper 4core X1.5sqmm flexible cabling between Indoor unit to Outdoor unit for communication with required accessories.	70	RMT		
<b>8.0</b>	<b>DRAIN PIPING</b>				
8.1	Supply, Installation & Testing of PVC Piping insulated sections and including bends, elbows, tees, tappings, wall sleeves, hangers, supports etc.				
(i)	25 mm dia.	20	RMT		
(ii)	32 mm dia.	20	RMT		
(iii)	40 mm dia.	50	RMT		
<b>9.0</b>	<b>MS STAND</b>				
(i)	Supply & Installation of Fabricated MS Stand for outdoor units for VRF Sytem	3	NOS.		
<b>10.0</b>	<b>REFRIGENT GAS</b>				
10.1	Supply of Gas & Charging of <b>Additional First charge of Refrigerant R 410</b> for all circuits for entire system over and above the pre-charged by OEM. Pre-charged quantity shall be mentioned along with outdoor Technical submittal for record purpose	25	KG		
<b>11.0</b>	<b>AIR DISTRIBUTION</b>				
<b>11.1</b>	Supply, Installation, Testing and Commissioining of Air Distribution Products -Supply Rectangular Ducting. S.I.T.C. of following gauges of Galvanised Iron ( GI ) Sheet ducting with accessories like anchor fasteners, black painted MS angles/ rods for supporting, bracing & frames neoprene rubber gaskets, galvanised hardware,				
	rivets, vanes, radius collars, etc. as per complete with splitters, supports, dampers, and turning vanes.(GI Sheet Makes: JSW / SAIL /TATA) Duct Sealing with Silicon Sealant of Supply and Return air ducts. All ductwork shall be sealant filled in type and sealant on all joints and seams, including flanged joints. All GI Sheet shall be with 120GSM zinc coating.				
(i)	24 G	80	SQMT		
(ii)	22 G	20	SQMT		
<b>11.2</b>	Canvas Connection for Ductable Units	3	NOS.		
<b>11.3</b>	Supply, Installation, Testing and Commissioining of Aluminium Linear Grille (Make: Airproducts /cosmos /Balaji /Airmech)	7	SQMT		
<b>11.4</b>	Supply, Installation, Testing and Commissioining of Volume Control duct Damper (Make: Airproducts /cosmos /Balaji /Airmech)	1	SQMT		
<b>11.5</b>	Supply, Installation, Testing and Commissioining of Control Damper (Make: Airproducts /cosmos /Balaji /Airmech)	3	SQMT		
<b>11.6</b>	Supply, Installation, Cowl Piece with Birdscreen - TFA	1	NOS.		

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SR. NO.	PARTICULARS	QTY	UNIT	RATE	AMOUNT
<b>12.0</b>	<b>INSULATION</b>				
(i)	<b>Supply &amp; Installation Thermal Insulation of 13mm Thick</b> S.I.T.C. Thermal Duct Insulation with 13 mm thick Nitrile Rubber Insulation with Class 0 category. Addisive to be applied as per OEM standared. Complete as directed by the Architect/ Bank's Engineer.	90	SQMT		
(ii)	<b>Supply &amp; Installation Thermal Insulation of 10mm Thick</b> S.I.T.C. Thermal Duct Insulation with 10 mm thick Nitrile Rubber Insulation with Class 0 category. Addisive to be applied as per OEM standared. Complete as directed by the Architect/ Bank's Engineer.	10	SQMT		
<b>13.0</b>	<b>Supply &amp; installation of insulated flexible ducting - 4 inch</b>	5	RMT		
<b>14.0</b>	<b>Lifting &amp; Shifting Charges for all Machines and Equipments</b>	1	LOT		
	<b>TOTAL OF B - LOW SIDE</b>				Rs.

SUMMARY OF AIRCONDITIONING WORK OF SBI's SME BRANCH, GIRGAON					
<b>A</b>	<b>HIGH SIDE</b>				RS.
<b>B</b>	<b>LOW SIDE</b>				RS.
	<b>GRAND TOTAL OF AIRCONDITIONING WORKS (A + B)</b>				RS.

GST WILL BE PAID ON ACTUALS