



**STATE BANK OF INDIA**  
**PREMISES & ESTATE DEPARTMENT, LHO MUMBAI METRO**  
3<sup>RD</sup> FLOOR, SYNERGY BUILDING, G- BLOCK,  
BANDRA KURLA COMPLEX, MUMBAI-400 051

**TENDER ID: MUM20231206**

**CORRIGENDUM- REVISED PRICE BID**

ONLINE TENDER & E- REVERSE AUCTION FOR PROPOSED AIR CONDITIONING WORK (VRF SYSTEM) FOR CREATION OF SBILD AT VIDHANI BLDG. **(SECOND & THIRD FLOOR)** AT NERUL , NAVI MUMBAI.

**Revised Price Bid: As Enclosed**

**Reference: Prebid meeting held dated: 05.01.2024**

Asstt. General Manager (P&E)

**REVISED PRICE BID****DILIP KULKARNI & ASSOCIATES - ARCHITECTS, INTERIOR, LANDSCAPE DESIGNER & SURVEYOR.**

Add: 15/3, 2nd Floor, 'C' Wing, Metro House, Opp. Hotel Delhi Darbar, Shahid Bhagat Singh Road, Colaba, Mumbai 400 001.

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Mobile - Mr.Rajan - 98200 76349 / 93216 29231

**NAME OF THE CLIENT: STATE BANK OF INDIA (SBILD- NERUL)**

ADDRESS: SBILD at Vidhani Bldg. G+3 Floor , Nerul

**NATURE OF WORK: - AIR CONDITIONING WORK (VRF SYSTEM) - FOR SECOND & THIRD FLOOR**

Sr.		Particulars	Qty	Nos	Rate	Amount
1		<b>Supply of Out Door/Indoors Units suitable for VRF / VRV System DAIKIN , MITSUBISHI , HITACHI.Bluestar</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	<b>18 HP VRF ODU</b>	3	No		
	2	<b>20 HP VRF ODU</b>	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.				
		<b>Wall Mounted Split Type</b> Indoor Units, unit shall be complete with wireless remote controller				
	1	2.0 TR Split Ac	1	nos		
	2	1.65 TR Split Ac	30	nos		
	3	1.3 TR Split Ac	2	nos		
	4	1.0 TR Split Ac	2	nos		
3		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.				
		<b>4 WAY CASSETTE AC Type</b> Indoor Units, unit shall be complete with wireless remote controller				
	1	2.0 TR 4 Way Ac	2	nos		
4		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.				
		<b>HI Static Ductable</b> Type Indoor Units, unit shall be complete with wireless remote controller				
	1	8.0 TR Ductable Ac	1	nos		
	5	Refnet Joints				
		<b>Supply of Refnet Joints</b>	34	nos		
5	1	Supply and installation of good quality fully digital Centralised <b>Touch Screen remote controller</b> Station with power supply adaptor. (Touch screen remotes with bulky power supplies will not be accepted).	2	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 Pressure Testing, Nitrogen flushing, testing & commissioning of the air-conditioning system				
	1	18 HP VRF ODU	3	No		

	2	20 HP VRF ODU	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.				
		<b>Wall Mounted Split Type</b> Indoor Units, unit shall be complete with wireless remote controller				
	1	2.0 TR Split Ac	1	nos		
	2	1.65 TR Split Ac	30	nos		
	3	1.3 TR Split Ac	2	nos		
	4	1.0 TR Split Ac	2	nos		
3		Installation 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.				
		<b>4 WAY CASSETTE AC Type</b> Indoor Units, unit shall be complete with wireless remote controller				
	1	2.0 TR 4 Way Ac	2	nos		
4		Installation 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.				
		<b>HI Static Ductable</b> Type Indoor Units, unit shall be complete with wireless remote controller				
	1	8.0 TR Ductable Ac	1	nos		
5		<b>REFRIGERANT PIPING FOR VRF</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 19mm thick Armaflex make throughout 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.	500	mtrs		
6		<b>CONTROL CABLING FOR VRF</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)	900	mtrs		
	7	<b>DRAIN PIPING FOR VRF UNIT</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, Drain Piping shall be insulated with 9mm Nitrill Rubber Insulation Armaflex/kflex make. (Price/Diamond/New India Trading)				
	1	25mm Pipe	50	Mtr		
	2	32mm Pipe	100	Mtr		
	3	40mm Pipe	50	Mtr		
	4	50mm Pipe	30	Mtr		
	8	Exhaust air with cowl-ventilation duct bird screen	4	nos		
	9	<b>GI CABLE TRAY :-</b> Provide adequate size enclosed GI cable tray of 18 Gauge to cover and protect the exposed refrigerant pipes and cabling for all the VRV units. Provide necessary sleeves for all wall and roof penetrations along with UV protection to prevent degradation. The same shall be with polyshield coating of atleast 2 coats of resin & hardner ( ploybond make / equivalent ).	20	mtrs		
	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	Cage with platform type Heavy Duty Stand for VRF AC	4	Nos		
	11	REFREGERENT 410 GAS FOR VRF	70	Kg		
	12	Core Cuttings & filling the same with cement and access	10	Nos		
	13	Drain pump for Split Ac Throw capacity 600mm and above ( Approved Makes :- Aspen, V Gard, Value , SICCOM , Wipcool )	5	Nos		

14		<b>Necessary civil work :</b> Trenching work / Making & remaking of holes in walls, final finishing the same in all respects pop,cements,etc with labour charge for same including loading and unloading. charges and trenching work if required.	1	Lot		
15		<b>Ventilation Work</b>				
		Supply, Installation,Testing & Commissioning of circular inline fans as shown on drawings, complete with sheet metal casing, direct driven motor with proper protection & flexible connection. Fan should be suitable for operation on 230 volts, 50Hz, supply as required. Fan shall be suitable for installation in shaft or as shown on drawings and shall be of following capacities. Necessary electrical cabling from power supply to unit to be included in quoted price (max 2 mtr). <b>( Approved Makes: Vents / Kruger / Greenheck / Nicotra / Ostberg / System Air , Airflow, Caryaire)</b>				
		The fan shall have low sound level exceeding not more than 40 DB at three metre distance.				
		Fresh Air & Exhaust Fans with cowl & bird screen				
	1	SITC of 6" dia propeller fan ( Approved Makes: Vents / Kruger / Greenheck / Nicotra / Ostberg / System Air /Airflow/ Caryaire/ Wadbros / )	27	Nos		
	2	SITC of Inline Exhaust Fan for Toilet 300 cfm @ 20 mm SP. ( Approved Makes: Vents / Kruger / Greenheck / Nicotra / Ostberg / System Air , Airflow, Caryaire, Wadbros , )	1	Nos		
	3	SITC of Inline Exhaust Fan for Toilet 150 cfm @ 10 mm SP. ( Approved Makes: Vents / Kruger / Greenheck / Nicotra / Ostberg / System Air , Airflow, Caryaire, Wadbros , )	3	Nos		
		Supply, Fabrication, Installation, Testing & Commissioning of following gauges of Galvanized Iron ( GI ) Sheet complete with splitters, supports, dampers, and turning vanes. (Approved Makes: Jindal, SAIL, TATA, Equivalent). Ductwork fabrication should follow SMACNA Standards and table as given in specification				
	2	24 G 0.6 mm thk Ducting	50	Sqmt		
	5	Supply and Installation of 6"x 6" wide Aluminum powder-coated Continuous Grilles. (Approved Makes: Dynacraft; Cosmos; Air Products.)	20	Nos		

		<b>6" Flexiable Duct :-</b> The ALUDUCT flexible duct is made of aluminium-polyestercasing, reinforced with spirally wound steel wire.Packaging: 10rm sections, squeezed to 600mm, packed into cardboard boxes.Flexibility rate (winding diameter): Relative to a specificdiameter, i.e. approx. 0.6 x diameter in mm.Temperature range: – 20°C to + 140°CAllowable negative pressure: Depending on duct position. For straight sections, you can assume 1/3 of transmitted pressure per diameter.Fire classifi cation - E.g.- 1364.3/A/06/MZ ( Approved AMke :- Quietflex® , Delta-flex , ALNOR )	20	Rmt		
	7	<b>4" PVC Pipe for Fresh :-</b> Supply and erection of 4 Inch dia (4kg/sq.cm.) PVC piping between indoor unit. ( Approved Makes Price/Diamond/New India Trading).	30	Rmt		
	8	Canvas Connection	5	Nos		
16		<b>Sheet Metal Works</b>				
		Supply, Fabrication, Installation, Testing & Commissioning of following gauges of Galvanized Iron ( GI ) Sheet complete with splitters, supports, dampers, and turning vanes. (Approved Makes: Jindal, SAIL, TATA, Equivalent).				
		Ductwork fabrication should follow SMACNA Standards and table as given in specification				
	1	22 G 0.8 mm thk Ducting	10	Sqmt		
	2	24 G 0.6 mm thk Ducting	50	Sqmt		
		<b>DUCT INSULATION</b>				
	3	Nitril Rubber Insulation with 13 mm thick, Fire rated, Closed cell type rubber insulation with 40 to 60 Kg/m3 density. All insulation joints be overlapped on each other and must be covered with self	70	Sqmt		
		Duct Acoustic Insulation shall be 13 mm thick Microban type Closed cell type rubber insulation with 140-180 Kg/m3 density. thermal conductivity not exceeding 0.047 W/m.K @ 20 Deg. C Apply approved adhesive and fastners as per specification	10	Sqmt		
	4	Supply and Installation of 6" wide Aluminum powder-coated Continuous Grilles. (Approved Makes: Dynacraft; Cosmos; Air Products.)	5	Sqmt		
	5	Indoor Unit Filter	1	Nos		

	6	Supply and Installation of Collar Dampers, constructed out of 20 G GI sheet. (Approved Makes: Dynacraft; Cosmos; Air Products, System Air)	4	Sqmt		
	7	SITC of Square supply air Diffuser (Approved Makes: Dynacraft; Cosmos; Air Products, System Air,)	2	Nos		
	8	SITC of Square Return air Diffuser (Approved Makes: Dynacraft; Cosmos; Air Products, System Air)	2	Nos		
	9	Supply and Installation of Duct Volume control Dampers, constructed out of 20 G GI sheet. (Approved Makes: Dynacraft; Cosmos; Air Products, System Air)	1	Sqmt		
<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>			
			<b>GST ON SIDE A( 28%)</b>
			<b>GST ON SIDE B( 18%)</b>