



**INDIAN BANK,
CORPORATE OFFICE, ESTATE DEPARTMENT
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Royapettah, Chennai - 600 014.
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**PRICE BID
(PART - 2)**

Tender document for Air-Conditioning works towards Supply, Installation, Testing & Commissioning of 28HP VRF Units along with associated works as replacement of existing AC System at 5th Floor of Indian Bank, Head Office Building at No.66, Rajaji Salai, Chennai 600001.

ISSUED TO

M/s. _____



This document contains 06 pages

Indian Bank-Corporate Office

AIR-CONDITIONING WORKS

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Sl. no	Description	Qty	SUPPLY		INSTALLATION		SUPPLY + INSTALLATION (RS)
			Rate (Rs)	Amount (Rs)	Rate (Rs)	Amount (Rs)	
1	<p>I Machines / (SITC) VRF OUTDOOR UNIT : 28 HP Supply, Installation, Testing & Commissioning (SITC) of factory made Modular outdoor unit , suitable to operate at minimum 48 degree C ambient temperature, suitable to operate on 3 phase, 380-415 V, 50 Hz power supply, air cooled, with top discharge unit, VRF type outdoor unit of air conditioners (as per the make give in the tender only) having dual compressors, GSS casing copper air cooled condenser coil with aluminum fins, condenser fans, automatic ON/OFF mechanisms for temperature control with facility for setting the inside temperature (of the proposed air conditioned space) for a wide range, with required quantity of eco-friendly refrigerant gas (R410A) to maintain the temperature within the above range, high/low pressure cut outs, safety thermostats, over current relay, fuses, oil pressure failure switch, single phase preventer, over load protection, Oil separator suitable for the refrigerant piping, accumulator, liquid and gas shut off valves, solenoid valves and other safety controls, control panel, with fittings to inter connect compressor, condenser and evaporator coils, frame work for mounting the entire unit and all other standard accessories specified by the manufacturer. Quoted amount is inclusive of cost of supply of full quantity of refrigerant gas for maintaining the satisfactory range of inside temperature (additional amount is not payable for refrigerant gas), rubber pads, Refnet Joints and all other materials & accessories for safe and satisfactory installation & functioning of the Air conditioners, pressure testing, vacuumizing, refrigerant filling, testing and commissioning to the satisfaction of the Bank. Rate shall be quoted for the above mentioned capacity / combination of multiple units within the overall capacity:</p>						
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Sl. no	Description	Qty	SUPPLY		INSTALLATION		SUPPLY + INSTALLATION (RS)
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2	VRF Indoor Units : / (SITC) SITC of following indoor units, to be connected to the above VRF outdoor unit, suitable to operate at minimum of 48 degree C external ambient temperature, with aluminum finned direct expansion cooling coils, electronic expansion valve, fan motor, safety thermostat, cordless remote, over current relay suitable to operate on 1-ph, 230 V (+/- 5%), proper drain connections etc with all other accessories supplied by the manufacturer complete, with aesthetic finish and cordless remote control as required having under mentioned capacities:						
2.1	IDU Cassette Type AC / (SITC) including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the units to complete the job.						
2.1.i	VRF ceiling suspended Indoor 4 way Cassette type Units having capacity of 5.0 TR	7	Nos				
2.1.i i	VRF ceiling suspended Indoor 4 way Cassette type Units having capacity of 2.8 TR	1	No				
2.1.i ii	VRF ceiling suspended Indoor 4 way Cassette type Units having capacity of 2.0 TR	1	No				
2.2	IDU High Wall Type AC / (SITC) including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the units to complete the job.						
2.2.i	2.0 TR Hi-wall Indoor unit	4	No				
2.2.i i	1.7 TR Hi-wall Indoor unit	2	No				
2.2.i ii	1.5 TR Hi-wall Indoor unit	6	No				
2.2.i v	1.3 TR Hi-wall Indoor unit	4	No				



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Sl. no	Description	Qty	SUPPLY		INSTALLATION		SUPPLY + INSTALLATION (RS)
			Rate (Rs)	Amount (Rs)	Rate (Rs)	Amount (Rs)	
2.3	Treated Fresh Air Units – 3.5 Tr including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the units to complete the job.	2	No				
3	Cordless Remote Control	25	No				
4	Corded Remote Control	2	No				
5	Refret	28	No				
Subtotal amount for the above items (Sl. No 1 thru 5) = P							
GST for the above amount @ % (tenderer to specify the GST rate) - I							
Total amount including GST -----(A)							
II. Other items							
6	Refrigerant copper piping of suitable size for suction and discharge for VRF units: Supply & laying / (SITC) of refrigerant hard drawn/soft drawn copper piping (both suction & discharge line shall be measured together as single unit - running length) with 19mm/13mm thick nitrile rubber insulation, sealed with black cotton tape as with gauge per manufacturer's standard. including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the piping to complete the job.	226	M	1,263			
7	Supply & Installation (SITC)of communication cabling of 4 core x 1.5 Sq.mm multi strand screened shielded copper control cabling to have interface between controller to individual unit covered. (The size & make of the cable will be acceptable as per the OEM recommendations) including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the cable to complete the job.	452	M	137			



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Sl. no	Description	Qty	SUPPLY		INSTALLATION		SUPPLY + INSTALLATION (RS)	
			Rate (Rs)	Amount (Rs)	Rate (Rs)	Amount (Rs)		
8	SITC of PVC drain pipe 2" dia or higher, with nitrile rubber insulation, U trap with wall chipping and concealing, including necessary accessories / fasteners / channels / supporting arrangements etc., which may require to install the drain pipe to complete the job.	180	137					
9	Supply and installation / (SITC) of 24Gauge GI Ducting for Fresh Air Grill with necessary frames for fixing, fasteners / channels / angles / supporting arrangements etc., with all incidental materials to complete the job	88	547					
10	Supply & Installation / (SITC) of Fresh Air Grills with necessary frames for fixing, fasteners / channels / angles / supporting arrangements etc., with all incidental materials to complete the job	3.4	5,789					
11	Supply and Installation of anti-vibrating pad as required to complete the job, with necessary fixing / fasteners / supporting arrangements etc., with all incidental materials to complete the job	24	Nos					
12	Supply of gas and charging of R410A gas etc., to complete the job / (SITC)	92	kg					
13	Brazing and pressure testing with N2,O2,Vaccumizing, Testing & Commissioning as recommended by Manufacturer / (SITC)	1	Job					
14	Supply and Installation of MS Channel for outdoor unit / (SITC), with suitable size civil foundation as per manufacturer recommendation for placing the outdoor units in position.	3	Nos					
Subtotal amount for the above items (Sl. No 6 thru 14) = Q								
GST @% (tenderer to specify the GST rate) - II								
Total amount including GST -----(B)								



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Sl. no	Description	Qty	SUPPLY		INSTALLATION		SUPPLY + INSTALLATION (RS)
			Rate (Rs)	Amount (Rs)	Rate (Rs)	Amount (Rs)	
SUMMARY OF THE PROJECT							
	TOTAL						
	BUYBACK OF OLD UNITS D (as per the materials given in scope of work including dismantling of all the old items/equipments as per site conditions)						
	TOTAL WITH BUYBACK						
	TOTAL GST						
	GRAND TOTAL WITH BUYBACK AND INCLUSIVE OF GST						

**WILL BE CONSIDERED FOR ARRIVING L1

Total Amount in words

(Rupees)..... Only

Date:



Authorized Signature with Seal