



PREMISES, ESTATE & EXPENDITURE DEPARTMENT,
CORPORATE OFFICE, NO: 254-260,
AVVAI SHANMUGAM SALAI,
CHENNAI – 600014.

TENDER DOCUMENT

**S/I/T/C of AIR CONDITIONING SYSTEM ALONGWITH ASSOCIATED ACCESSORIES FOR
SETTING OF HRMS IN INDIAN BANK PREMISES AT 3rd FLOOR, NO. 7, PRAKASAM ROAD,
T NAGAR BRANCH PREMISES, CHENNAI - 600017**

PART-II FINANCIAL BID

Ref.No: CO:EST:CPPC-04
Date : 02.12.2021

Name of the contractor:

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Last date of submission of tenders	13.12.2021 upto 15.00Hrs. at Indian Bank, Corporate Office, Premises, Estate & Expenditure dept, First Floor, No. 254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014.
Date of opening Tender	13.12.2021 upto 15.30Hrs . at Indian Bank, Corporate Office, Premises, Estate & Expenditure dept, First Floor, No. 254-260, Avvai Shanmugam Salai, Royapettah, Chennai – 600 014.
Cost Of Tender	Free Of Cost.

This part of the tender should be submitted in a separate envelope and financial bid shall be quoted only in this form and no other form will be accepted.

This Tender document contains 08 pages



Schedule of Quantities

**Quote for Air-conditioning Work Station for Setting of HRMS in Indian Bank Premises
at 3rd Floor No:7, Prakasam road, T Nagar, Chennai - 600017**

1	All items of work under this Contract shall be executed strictly to fulfill the requirements laid down under "Basis of Design" in the specifications. Type of equipment, material specification, methods of installation and testing and type of control shall be in accordance with the specifications, approved shop drawings and the relevant Indian Standards, however capacity of each component and their quantities shall be such as to fulfill the above mentioned requirement. The basis of the design to be submitted by contractor for approval by Bank
2	The rate for each item of work included in the Schedule of Quantities shall, unless expressly stated otherwise, include cost of:
	a. All materials, fixing materials, accessories, appliances tools, plants, equipment, transport, labour and incidentals required in preparation for and in the full and entire execution, testing, balancing, commissioning and completion of work called for in the item and as per Specifications and Drawings.
	b. Wastage on materials and labour.
	c. Loading, transporting, unloading, handling/double handling, hoisting to all levels, setting, fitting and fixing in position, protecting, disposal of debris and all other labour necessary in and for the full and entire execution and for the job in accordance with the contract documents, good practice and recognize principles.
	d. Liabilities, obligations and risks arising out of Conditions of Contract.
	e. All requirements of Specifications, whether such requirements are mentioned in the item or not. The Specifications and Drawings where available, are to be read as complimentary to and part of the Schedule of Quantities and any work called for in one shall be taken as required for all.
	B. Wastage on materials and labour.
	g. In the event of conflict between Schedule of Quantities and other documents including the Specifications and approved basis of design, the most stringent shall apply. The interpretation of the Bank shall be final and binding.
3	All equipments, quantities and technical data indicated in this Schedule are for the Contractor's guidance only, This schedule must be read in conjunction with other documents and site conditions. The Contractor shall be paid for the actual quantity of work executed by him in accordance with the approved Shop Drawings & Basis of Design at the contract rates.
4	This Schedule shall be fully priced and the extensions and totals duly checked. The rates for all items shall be filled in INR including NIL items.
5	No alteration whatsoever is to be made to the text or quantities of this Schedule unless such alteration is authorised in writing by Services Consultant. Any such alterations, notes or additions shall, unless authorized in writing, be disregarded when tender documents are considered.

6	The Contractor shall procure and bring Materials/Equipment to the site only on the basis of drawings approved for construction and shop drawings /Basis of Design and not on the basis of Schedule of Quantities which are approximate only. This also applies to the Contractor's requisition for Owner supplied materials.
7	The unit rate for all local equipment or materials in Indian Rupees shall include cost of equipment and materials including all taxes and duties and also including forwarding, freight, insurance and transport into Contractor's store at site, storage, installation, testing, balancing, commissioning and other works required.
8	The Contractor /vendor free to make site visit to ascertain the existing airconditioning unit working conditions and other relevant site feasibility/feature
9	<p>One year (12 months) on site Comprehensive Warranty (DLP) for complete work from the date of acceptance by Bank.</p> <ul style="list-style-type: none"> • Down-time call attendance should be within 24 hours. • In case the Equipment / System remains non-operational for more than 7 days then warranty period will be extended for the equivalent period for which Equipment / System remained non operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract. <p>*The scope of works shall be involving for attending any no. of breakdowns and 4 Nos. of preventive maintenance services at every quarter per year for all the equipment's connected with the plant. The complaints shall be attended within 24 hours and periodical maintenance</p>
10	The total price (Excluding GST) including 1 year CMC (comprehensive maintenance contract after expiry of DLP/ Comprehensive Warranty) will be considered for evaluation of the lowest price

Signature & Seal of the Tenderer



SL:No	Description Works	Unit	Qty	Rate	Amount
A	AC Equipment				
1.1	DX TYPE DUCTABLE SPLIT UNITS				
	Supply, installation, Testing and Commissioning (SITC) of 8.5 TR with 3400 CFM Ductable type air conditioning unit complete with hermetic scroll compressor, air cooled condenser with fan & motor, Evaporator cooling coil with fan & Motor, insulated drain pan, Integral refrigerant piping, safety controls & cut-outs, drier with shut off valves, indoor mounted control panel housing the starters for the various motors, control wiring with microprocessor panel, service/gas charging valve. The unit shall be delivered with factory charged refrigerant. Charges including for Installation, brazing work, Nitrogen pressure testing, vaccumizing copper pipe line, FRR canvass connection and commissioning the Ductable unit. The System should have Eco-friendly green refrigerants like R-410A.	nos	2		
	ITEM A: AC Equipments Sub Total (A)				
B	Ancillary Works				
2.0	Refrigerant Piping				
	Supply, Installation, Testing and Commissioning of hard drawn copper refrigerant piping including elbows and other fittings duly insulated with closed cell elastomeric nitrile rubber tube insulation between the indoor units and outdoor air cooled condensing units. The refrigerant piping should be complete with necessary supporting arrangements. (The pipe sizes shown here is indicative - the sizes may be differ based on the manufacturer's standard. Vendor needs to intimate during the quote)				
	28.5mm O.D. (Insulation -13mm thick) for 8.5 TR	Rmt	30.00		
	15.9mm O.D. (Insulation -13mm thick) for 8.5 TR	Rmt	30.00		
3.0	Power & Control cabling				
3.1	Power cabling between safety isolator switch to ductable split outdoor unit. Cable size shall be as per the standard manufacturer requirements. Vendor has to quote according to their manufacturer requirements.	Rmt	10		



3.2	Power cabling and control cabling between outdoor unit to indoor unit. Cable size shall be as per the standard manufacturer requirements. Vendor has to quote according to their manufacturer requirements for ductable split units.	Rmt.	30		
3.3	Weather proof Power isolator / Safety switching OFF mechanism near the outdoor unit for Ductable split unit	Rmt.	2		
4.0	Refrigerant Charging				
	Supply and Charging of R-410A refrigerant and oil for the above system. (For additional charge due to piping length)	Nos	3		
5.0	Drain pipe				
	Supply, Installation, Testing and Commissioning of Φ25 mm condensate drain PVC piping with necessary clamps, supports, hangers and fitting such as bend, tees, reducers etc. The drain pipe should duly insulated with 9mm thick 'elastomeric nitrile rubber type' tubular insulation.	Rmt	35		
6.0	Ducting (Factory Fabricated)				
	Supply, installation and Testing of factory fabricated ductwork, made out of GSS ducts including elbows, turning vanes, neoprene gaskets slip on flanges, GI fully threaded rods, GI slotted channel supports etc, in accordance with the approved shop drawings and specifications. Ducting shall also be painted in black colour wherever grilles are provided. All the ducts shall have factory made TDF flange regardless of size. Zinc coating shall not less than 120GSM.				
	Upto 750mm (24 gauge) GSS	Sqm	60		
	751mm - 1250mm (22 gauge) GSS	Sqm	20		
7.0	Fire Damper- Fusible Link Type				
	Supply, Installation, Testing and Commissioning of UL listed UL 555:1995 and CBRI approved factory fabricated fire dampers made out high quality galvanized sheet steel with 16G thickness and interlocking type blades roll formed from 18G thick galvanized steel sheet, blade ramp formed from 16G thick galvanized steel sheet with a spring holder, 2 Nos of constant force Stainless steel springs and UL stamped fusible links which has fire rating of 165°F with extended GI sleeve of 450mm length / suitable flange for connecting	Sqm	0.6		



	to the duct. The damper should be rated for at least 120 minutes fire rating.				
8.0	Duct Acoustic Insulation				
	Supply and Installation of acoustic insulation of ducts with 19mm thick open cell elastomeric nitrile rubber insulation with Class '1' FRR, smoothly stuck to the inner	Sqm	50		
9.0	Duct Thermal Insulation				
	Supply and Installation of 13mm thick closed cell elastomeric foam Nitrile rubber insulation with Class '0' FRR, stuck to the outer surface of ducts with suitable synthetic rubber adhesive as recommended by the insulation manufacturer. All joints of the insulation shall be sealed with 50mm wide self adhesive tape of the same material as a sealant and vapor barrier.	Sqm	14		
10.0	Civil Works				
10.1	All civil works pertaining to HVAC scope like breaking walls for making of holes for inserting copper pipes, drain lines, PCC pedestals works for mounting outdoor units etc. as required as per site conditions.	Lot	1		
10.2	Existing outdoor units M.S ANGLE IRON WORKS to be finished with required quote of emanel paint.	Lot	1		
10.3	Cleaning of existing AC ducts and grills for 2 Nos. x 11.5 TR and 1 No. x 5.5 TR using calibrated robotic cleaning method, vendor need to submit calibrated certificated before proceeding to work. The quoted price shall inclusive to submit recorded video or photo snap with date and time before cleaning and after cleaned ducts.	Lot	1		
	ITEM B: Ancillary Works Sub Total (B)				
C	Annual Maintenance Contracts				
	Comprehensive maintenance contract fo the above air-conditioning work comprising of Indoor unit& outdoor unit, with ceiling suspended cassette mounted type indoor unit, and other associated auxiliaries including repair/replacement of refrigerant line refrigerant y				





	<p>joints, and refinishing of refrigerant as and when required to upkeep the plant in good working condition after DLP</p>				
	<p>The scope of works shall be involving for attending any no. of breakdowns and 4 Nos. of preventive maintenance services at every quarter per year for all the equipment's connected with the plant. The complaints shall be attended within 24 hours and periodical maintenance</p>				
	<p>1st year (after DLP)</p>	Lot	1		
	<p>ITEM C: Annual Maintenance Contracts Sub Total (C)</p>				
D	<p>Buy Back</p>				
	<p>Buy back items of existing indoor and outdoor 5.5Tr & 11.5 Tr ductable units including Dismantling of existing 11.0 TR & 5.5 TR DX-Type Ductable Split units and its necessary refrigerant piping, drain lines and power cabling etc., removing from site and clearing in that location and etc.</p>	Lot	1		
	<p>ITEM D: Buy Back (D)</p>				



SL:N O	DESCRIPTION	*Amount	GST		
A	HVAC Equipments				
1.0	DX TYPE DUCTABLE SPLIT UNITS				
	ITEM A: HVAC Equipments Sub Total (A)				
B	ANCILLARY WORKS				
2.0	Refrigerant Piping				
3.0	Power & Control Cabling				
4.0	Refrigerant Charging				
5.0	Drain piping				
6.0	Ducting (Factory Fabricated)				
7.0	Fire Damper-Fusible Link Type				
8.0	Duct- Acosting Insulation				
9.0	Duct- Thermal Insulation				
10.0	Civil Work				
	ITEM B: Ancillary Works Sub Total (B)				
C	Annual Maintenance Contracts				
D	Buy Back			(-)	
	Grand Total (A+B+C-D)				

***Applicable GST (taxes) will be extra**

Total Amount in words: Rupees.....only.

GST (taxes) will be extra

Place:

Signature & Seal of the Tenderer

Date:

