



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

TENDER DOCUMENT

**AIR CONDITIONING SYSTEM ALONGWITH ASSOCIATED ACCESSORIES FOR SETTING
OF CPPC IN INDIAN BANK PREMISES AT 2ND FLOOR, NO. 7, PRAKASAM ROAD,
T NAGAR BRANCH PREMISES, CHENNAI - 600017**

PART-II FINANCIAL BID

Ref.No: CO:EST:CPPC -04
Date : 27.04.2021

Name of the contractor:

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Last date of submission of tenders	05.05.2021 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	05.05.2021 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 CPPC in Indian Bank Premises
at 2nd 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.
	f. 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 air-conditioning 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 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	HVAC Equipment				
1.1	HI WALL Unit -R410A/R32 Fixed Speed				
	<p>Supplying, installation, testing and commissioning of 3-Star rated Hi-wall split air conditioner of following capacity (latest version) with On Off Timer along with wireless remote controller including providing and laying the standard length of 3m copper, electrical and 25mm dia heavy duty PVC drain piping with all necessary fittings duly insulated with 9mm thick nitrile rubber pipe insulation including Initial refrigerant charge suitable for 15 Mtrs distance between IDU and ODU along with drilling the holes and packing and making good the damaged surfaces good comprising of the following:-</p> <p>i) Indoor unit consisting of decorative panel ,compact cooling coil, electronic expansion valve ,dynamically balanced blowers, insulated drain pan control panel with cabling between control panels provision for synthetic washable media filter including insulation. The indoor unit shall be complete with pre filter & remote as per requirement The indoor units shall suitable for work on R 410 A /R 32 refrigerant of following capacities:. including wireless remote control unit LCD display , soft cooling and Indoor Unit settings (Location to be finalised as per site conditions)</p> <p>ii) Outdoor unit consisting of hermetically sealed Rotary Compressor to operate on 230 V, Single Phase, 50 Hz AC Supply, Anti Corrosive Coated Condenser Coil with fan and motor, interconnecting refrigeration piping, starters/controls/cutouts/relays etc., mounted inside a powder coated sheet metal cabinet duly treated for corrosion protection.</p>				
a	Min. 3-Star rated Hi-wall split air conditioner of 1.0 TR capacity	Nos	3.00		
1.2	CASSETTE UNIT-R410 A/R32 : Fixed Speed				
	<p>Supplying, installation, testing and commissioning of CASSETTE type split air conditioner with the following capacity with On Off Timer along with wireless remote controller including Initial refrigerant charge suitable for 3 Mtrs distance between IDU and ODU along with drilling the holes and packing and making good the damaged surfaces and min 3 mtr Condensate drain pipe as specified spec along with drilling the holes and packing and making good the damaged surfaces comprising of the following:-</p>				





	<p>i) Indoor unit consisting of 4 way Cassette indoor unit with decorative panel decorative panel,compact cooling coil, electronic expansion valve, ,drain pump, Multi speed fan motors, dynamically balanced blowers, provision for synthetic washable media filter including insulation. The indoor unit shall be complete with pre filter & remote as per requirement The indoor units shall suitable for work on R 410 A refrigerant of following capacities:. including wireless remote control unit LCD display ,soft cooling and indoor unit setting.</p>				
	<p>ii) Outdoor unit consisting of hermetically sealed Rotary Compressor to operate on 230 V, Single Phase for 2 Tr & 415V ,Three phase , 50 Hz AC Supply, Anti Corrosive Coated Condenser Coil with fan and motor, interconnecting refrigeration piping, starters/controls/cutouts/relays, etc., mounted inside a powder coated sheet metal cabinet duly treated for corrosion protection.</p>				
a	2.0 TR Cassette type AC :All round Flow (Single Phase) 3 STAR RATED	Nos	2.00		
b	3.0 TR Cassette type AC :All round Flow (Three Phase)	Nos	1.00		
	ITEM A: HVAC Equipments Sub Total (A)				
B	Ancillary Works				
2.0	Refrigerant Piping				
	Supply & fixing of interconnecting copper refrigerant pipe work between Indoor Unit & outdoor units with full gas charged R-410 A/R32 and shall be insulated with 9mmthick Nirile Rubber insulation with FRP tape protection on exposed part of insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with cable tray arrangement complete as required. as mention below complete as per specifications as required. (suction /liquid line).The piping size shall be as per manufacturer requirement .(Beyond 3 mtrs)				
	For Split Unit (suction & Liquid)	Rmt	45.00		
	For Cassette unit 2 Tr (Suction & Liquid)	Rmt	30.00		
	For Cassette unit 3 Tr (Suction & Liquid)	Rmt	20.00		





3.0	Condensate Drain Piping				
	Supply, Installation, Testing and Commissioning of PVC drain piping (additional) , 15 Kg pressure rating complete with fittings, supports as per specifications and insulated with 6 mm thick Nirile Rubber insulation including with Chase cutting and repairing as per specifications and drawings complete as required. The rate including P/F of Hitech pipe support with required slope and connecting to the nearest drain line for split & cassette AC . (Beyond 3 mtrs)				
a)	20 mm dia pipe	Rmt.	10.00		
b)	25 mm dia pipe	Rmt.	15.00		
c)	32 mm dia pipe	Rmt.	10.00		
4.0	Stabilizer				
	Supply, installation, testing and commissioning of wall mounting 4KVA stabilizers for 1.0Tr Hi-Wall Split / Cassette type Air Conditioning units with input voltage range of 170-270 Volts and output 220 +/- 10% as required.	Nos	3.00		
5.0	Support Bracket				
	Providing and fixing standard powder coated support brackets for the above split / cassette units including fastener, anti vibration pads and other accessories as required.				
a)	For split air conditioner	Nos	3.00		
b)	For cassette units	Nos	3.00		
6.0	Electronic Timer				
	Supplying and fixing 0-24 hrs electronic timer with 2nos 25A SP MCBs, 2 nos 25A TP contactors completely wired housed in a suitable powder coated enclosure with hinged door and mounted on wall with all interconnections. (for ac units in System Room)	Nos	1.00		
7.0	Communication Cabling				
	Supply & laying of Communication Cable B/w Control Panel to ODU with PVC Conduit Pipe				
a)	For Split/Cassette Single Phase Ac - 3C x 2.5 Sq.MM	Rmt	75.00		
b)	For Cassette AC - 4 C x 2.5 Sq.MM	Rmt	20.00		





8.0	Drain Pump				
	Supply, Installation, Testing and Commissioning of drain water pumps for Hi wall split AC with water flow 11 liter per hour or with minimum head 7m.	Nos	1.00		
	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 joints, and refinishing of refrigerant as and when required to upkeep the plant in good working condition after DLP				
	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				
	1st year (after DLP)	lot	1		
	ITEM C: Annual Maintenance Contracts Sub Total (C)				



SUMMARY				
SL: NO	HVAC WORKS (HI WALL /CASSETTE)	Amount(in Rs)	GST	Total Amount (Rs)
A	HVAC Equipments		28%	
1.1	Hi Wall Unit			
1.2	Cassette unit			
	ITEM A: HVAC Equipments Sub Total (A)			
B	ANCILLARY WORKS		18%	
2.0	Refrigerant Piping			
3.0	Condensate Drain Piping			
4.0	Stabilizer			
5.0	Support Bracket			
6.0	Electronic Timer			
7.0	Communication Cabling			
8.0	Drain Pump			
	ITEM B: Ancillary Works Sub Total (B)			
C	Annual Maintenance Contracts			
	GRAND TOTAL			

Applicable GST (taxes) will be extra

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

GST (taxes) will be extra

Place:

Signature & Seal of the Tenderer

Date:

