

## **NOTICE INVITING TENDER**

CO/GAD/ARCH/2022-23/

Dated: 11.05.2022

To

,  
Empanelled AC vendors in category 10lakhs and above.

Dear Sir,

**Reg: centralized AC work at 12<sup>th</sup> floor, CO Chandermukhi ,Nariman Point ,Mumbai.**

Central Bank of India, Central Office, at 16<sup>th</sup> floor, Architect Section GAD, Chander Mukhi, Nariman Point, Mumbai-400 021, invites **sealed** tenders for captioned work from vendors dealing with air conditioning work. The tenders should be submitted in a **sealed envelope SUPERSCRIBED** for the above-mentioned work. The specifications, conditions of Contract and Schedule of Work to be carried out are enclosed herewith.

Please note that Bank does not bind itself to accept the lowest or any tenders and reserve itself the right to accept any or all tenders either in whole or in part.

The tender **duly filled in and signed ALONG WITH STAMP on each page** shall be submitted in **sealed cover**, clearly subscribing the name of the said work to above address, so as to reach us not later than 3:00 PM, 23/05/2022. The tenders will be tentatively opened at 4:00 pm on same day or as intimated.

Authorised persons from vendors are requested to be present during the tender opening. Late tenders are liable to be rejected (To be submitted at, **Architect section, 16<sup>th</sup> floor, Central Office, Chander Mukhi, Nariman Point, Mumbai-400021**).

For detailed specifications / layout-plan and any other clarification, you may contact Architect Section, GAD, and Central Office.

The work completion period will be 30 days from the date of acceptance of work order.

**(VIJAY SAXENA)**

**Asst. General Manager - Electrical**

## **GENERAL CONDITIONS**

1. Contractor is requested to **inspect the site / premises, prior to submission** of tender/quotation to acquaint with the site conditions.
2. Items to be carried out are listed in the attached Schedule of quantities. The Bank reserves the right to add/omit any items/partly or fully, without giving any reason.
3. The Contractor shall at his own expenses rectify the unsatisfactory works within 7 days. In case the Contractor fails to do so, Bank reserves the right to carry out the work through any other agency/agencies and such expenditure will be recovered from the Contractor in the due course of time.
4. All soil, filth, rubbish and other objectionable materials shall be at once carted away by the Contractor out of the premises/site as per local authority's rules in force, if any, at his own cost and expenditure. In absence of above the Bank may do so at the Contractor's risk and cost.
5. The Bank doesn't bind itself to accept the lowest or any tender and reserves itself the right to accept or reject any or all the tenders.
6. The amount quoted in the tender should include all charges for material, labour, transportation plus GST or any other incidental expenses . and Bank shall not be responsible for any other expenses in this connection.
7. The tenderers are requested to sign the tender and the schedule of quantities on all pages; otherwise the same shall be rejected.
8. No extras shall be paid for any minor alterations made in design/specifications, while work is in progress. The rate for any new/extra items shall be settled by the Bank, after getting necessary rate analysis from the Contractor.
9. **No advance shall be paid.**
10. Rates quoted in the tender/quotation should be valid for at least 90 days from the last date of receiving the tenders.
11. Contractor shall have to complete the work within 30 days from the date of receipt of the order.
12. In case, Contractor fails to complete the work in the said period, liquidated damages at a rate of 1% per week or part thereof will be levied till the work is completed in all respects (max. 10% of Contract Value)
13. The rates quoted should be inclusive of charges/out of pocket expenses towards obtaining local authorities approval if any.

We accept the above conditions in Toto.

**CONTRACTOR'S SIGNATURE & SEAL:**

## APPENDIX -I

1.	Name of Work	Air conditioning work at 12 <sup>th</sup> floor centralized AC system chandermukhi CO Mumbai.
2.	Defect liability period	12 (Twelve) months
3.	Date of commencement	Immediate /supply of machines
4.	Date / Time of completion	30 Days
5.	Liquidated damages	1% of the accepted contract sum per week subject to a maximum of 10% of the accepted contract value.
6.	Earnest Money	<b>Rs10,000/-</b> in the form of Demand Draft.
7.	Tender Fee:	<b>Rs2000/-</b>
8.	Retention Percentage	08% of the value of work done.
9.	Installment after completion Certificate	50% of the total retention amount.
	Minimum value of work	60% on machine supply and remaining on completion.
11.	Period of Honoring Interim	On machine supply to site.
12.	Period of Honoring Final Certificate	one Month on the receipt of bill from the Contractor.

## **TECHNICAL SPECIFICATIONS (AIR CONDITIONING)**

### **(1) AIRCONDITIONING SYSTEM:**

The condensing unit shall comprise the following:

#### **(i) AIR COOLED CONDENSING UNIT:**

- (a) Compressor (Scroll ).
- (b) Condenser Coil.
- (c) Condenser Fan with Motor.
- (d) Sheet Steel Casing & Suitable Base Frame.
- (e) Electrical Isolating Switch.

(a) **COMPRESSOR:** The outdoor units shall comprise of one/two/three compressors with internally built high and low pressure cutouts.

(b) **CONDENSER COIL:** One single / double circulated condenser coil, of 3/8" O.D. copper tubing (22-G) with serrated and extended aluminum fins. Tubes shall be arranged in a staggered design for better efficiency. Condenser coil working pressure to be 300 PSI.

(c) **CONDENSER FAN WITH MOTOR:** Axial flow fan for condenser shall be adequately sized and shall be direct driven. The fans shall be selected for low noise level and speed shall not exceed 920 rpm. Condenser fan motor to be IP55 (suitable for outdoor mounting) and all electrical components shall be housed in a water proof enclosure.

(d) **SHEET METAL CASING:** All duly enclosed in a GI. Powder coated steel sheet cabinet duly made weather proof. The outdoor units shall be mounted on steel stands duly coated with anticorrosive paint like Zinc chromate to be provided by the Contractor, to suit the site conditions.

#### **(ii) INDOOR UNITS:**

The indoor units shall comprise of a single / double circulated cooling coil, evaporator fan with fan motor duly enclosed in a G.I. Powder coated steel sheet cabinet. Suitable angle iron bracing for unit suspension shall be provided. The drain tray shall be insulated and the cabinet shall be acoustically insulated if so required by the Contractor to ensure noise level is within acceptable norms as determined and accepted by the client. Filters shall be easily removable and cleanable.

#### **(iii) REFRIGERANT PIPING:**

The refrigerant piping shall be out of hard / soft quality, pre-pressure tested, copper seamless pipe, of size as calculated.

The tender should ensure that the units are capable of delivering the rated capacity and meet the inside design conditions based on the locations of the indoor and outdoor units as shown on the relevant drawing, and also ensure that the air-conditioning units can

perform, at the distances and elevation differences between the indoor and outdoor units.

The piping should be clamped with using a 'C' clamps. The distance between two supports should not be more than 5 ft.

(iv) **DRAIN PIPING:**

Drain piping out of PVC / G.I. Medium class pipe shall have to be provided from the indoor unit to the drain point identified by the client. Interconnection between the drain outlet of the indoor unit and the drain pipe may be carried out using P.V.C. hard non-kinkable pipe with excellent water proof clamping arrangement at the both ends to thoroughly ensure that no water droplets trickle down. A 'U' trap of minimum 2 depth, constructed out of hard P.V.C. elbows shall be installed just at the drain outlet of the indoor unit.

(v) **SHEET METAL WORK:**

(a) **MATERIAL:**

Ducts shall be made of galvanized steel sheets. The galvanized steel sheets shall conform to I.S.277-1965.

**Installation:**

Duct fabrication and installation shall generally conform to I.S. 655 - 1963. Contractor shall provide and neatly erect all sheet metal work as shown on drawings. Ducting over false ceiling shall be supported from the slab or from beams. In no case shall the duct be supported from the ceiling hangers or be permitted to rest on a suspended ceiling.

All ducts shall be rigid and shall be adequately supported and braced where required with standing seams, tees, or angles of ample size to keep the ducts true to shape and to prevent buckling, vibration or breathing. All joints shall be made tight and all interior surfaces shall be smooth.

(b) **GRILLES & DIFFUSERS:**

All air terminal devices mentioned in tender documents shall be made out of extruded aluminum with high quality finish and powder coated with approved make color. Similarly the volume control dampers shall also be made out of heavy gauge alluminium sections joined perfectly at 45 deg. Angle without any gap.

**Installation of Grills:**

Installation of grills / diffusers shall be done by the air conditioning Contractor irrespective of the type/model of false ceiling systems the diffusers will have to be individually suspended from the ceiling slab an aligned to match the ceiling line level.

(c) **FRESH AIR / EXHAUST AIR LOUVERS:**

Extruded Aluminum construction duly anodized (20 microns and above) fresh air louvers with bird screen, with aluminum damper shall be provided in the clear opening of the masonry walls. Gravity shutters made out of heavy gauge (1.2 mm) aluminum frame and blades of same material shall be provided with every wall-mounted fan.

(d) **TESTING & BALANCING:**

After completion all duct systems shall be tested for air leakage. The entire air distribution system shall be balanced to supply return or exhaust the air quantities as required in the various regions to maintain the specified room conditions.

**LIST OF APPROVED AND NOMINATED MANUFACTURERS/  
SUB-CONTRACTORS / BRANDS**

1. All materials shall be of the 1<sup>st</sup> quality. Among approved brands, selection of brand shall be done as per Client/Architect choice.
2. Wherever Contractor proposes to use equivalent makes (i. e. other than specified) the same shall be done only after prior approval from Client/Architect. Any additional expenditure and time due to this shall be solely on Contractor's account and no claims whatsoever shall be entertained, in this regards.

**AIR CONDITIONING WORKS:**

S.N.	DESCRIPTION		APPROVED MAKES OR EQUIVALENT
1.	Low Tension, TPN SFU with HRC fuses, 415 volts AC 3 phase	:	Siemens / L.T.
2.	415 Volts AC 3 phase and Neutral. 50 Hz PVC armored. PVC sheathed 1.1 kV grade. Aluminum / Copper conductor Cables type AYFY / YRY	:	CCI / Universal / Asian / Polycab
3.	Glands	:	Siemens Type Braco
4.	Lugs	:	Dowells
5.	PVC wires	:	Finolex / Polycab
6.	MCCB	:	Merlin Gerin
7.	Miniature Circuit breaker of 10 kA Bearing Capacity and Boards	:	MDS / Merlin Gerin / Datar
8.	Cables (Telephones)	:	Finolex / Delton
9.	PVC pipes and fittings.	:	Precision / Circle Arc
10.	MS pipes and fittings.	:	Bec / Polypack
11.	Air Cooled Ductable & Split A.C.	:	Daikin Hitachi / Toshiba / Mitsubishi

12.	Insulation - Fiber Glass	:	FGP / Twiga / Mourya Industries
13.	Cables - Power	:	ICC / CCI / Krishna / Equi
14.	G.I. Sheets	:	Sail / Jindal / Nippon / National
15.	Any other Item	:	Sample for approval of Architect

All brands to be specified by the Client / Architect at the time of execution, Contractor to confirm before placing the order with the supplier.



