

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

Tender Notice No: IACS / SMS/SR/34 Date: 25.01.2021

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors for a **1500°C general purpose tube furnace**.

Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions. Part-II (Price Bid) should clearly indicate group-wise price, if needed, as mentioned in the technical bid. The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Completed tender bids should reach the office of **School of Materials Science, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on or before the scheduled date and time specified below:

Tender Notice No.	Tender Notice No: IACS / SMS/SR/34 Date: 25.01.2021
Last date and time of submitting tender	15/02/21, 12 noon
Date and time of opening tender	16/02/21, 12 noon
Place of opening tender	A. K. Roychaudhuri Hall, IACS
Contact	Email: mssr@iacs.res.in Tel.+91 33 2473 4971 [Ext. 1226]

The technical bids will be opened first to judge/evaluate the technical specifications of the said instrument and thereafter the price bids of only technically qualified bidders will be opened.

Technical Bid Evaluation: The Technical Bids will be evaluated in the presence of the representatives of intending bidders who will be able online to clarify technical aspects of their bids, if any, required by the Technical Evaluation Team.

Opening of price-bid: The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or reimburse any expenses to any of the bidders for attending opening of technical bid.

1. TECHNICAL BID

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly super scribed as 'TECHNICAL BID' on the outer cover of the envelop as already detailed above. It should be clearly mentioned on the envelope as "**1500°C general purpose tube furnace**".

Technical Specification for 1500°C general purpose tube furnace:

- 1) Accommodate 1in., 2in. and 3in. O.D. process tubes
- 2) Silicon carbide heating elements positioned above and below tube for long-life, safety and reliable service with maximum energy savings
- 3) Construction with Moldatherm insulation for rapid heat-up and cooldown, energy efficiency and cooler exterior surface temperatures.
- 4) Temperature Range 500°C to 1500°C
- 5) Heating Zone should be 12 Inch or more.
- 6) Controller: single program with multiple segments for ramp (up and down) and dwell (timed hold) temperature control
- 7) Microprocessor-based PID programmable control (proportional, integral, derivative) prevents overshoot
- 8) Temperature control with Type "R" thermocouple to stabilize temperature.
- 9) programmable control for 30 programs or more and with segments for ramp (up and down) and dwell (timed hold) temperature control.
- 10) It can be set 90 segments per program.
- 11) Program patterns can be based on either time or rate.
- 12) Large 5-digit LED display of actual temperature& trends.
- 13) Adjustable high limit over-temperature protection
- 14) Over-temperature protection should Operates via magnetic contacts through signal from independent thermocouple.
- 15) LED display of actual temperature vs. setpoint
- 16) Temperature display in °C or °F
- 17) Electrical Requirements 208/240V 50/60Hz
- 18) Should supply with 1 set of two 2" tube adapters

Warranty: Minimum 1 year while 3 years warranty will be preferred.

Service Facility: Supplier should mention their details of service setup and man powers in the eastern part of India, Response time should be within 24 hrs.

Technical compliance chart should be provided following format,

Sr. No	Tender specification	Your offered instrument specification	Extent of compliance
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Tender will not be accepted if the technical compliance chart is not provided following the above format.

2. PRICE BID

The financial bid indicating (item-wise, if required) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly superscribed as 'PRICE BID' on the outer cover of the envelop as already detailed above. Price bids of only technically qualified bidders will be opened and the corresponding manufacturer/exclusive distributor/vendors will be intimated the date and time of the opening of price bid at their e-mail ids. Rest of the bidders will stand rejected.

PRICE: Price to be quoted on CIF Kolkata and also FOB basis.

3. BID SECURITY:

- a. An Account payee Demand Draft/Pay Order for Rs. 15000.00 (Fifteen thousand only) drawn in favour of “Indian Association for the Cultivation of Science (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN000093, MICR Code: 700002048)” is to be furnished by the bidders except those who are registered with the Central Purchase Organizations, National Small Industries Corporation or the concerned Ministry or Department, as Bid Security money or Earnest Money Deposit (EMD).
- b. The Demand Draft for the Bid-Security should have at least 90 (ninety) days validity period of opening of the bids.
- c. In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft of 10% of the order value in the name of “Indian Association for the Cultivation of Science” is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money or EMD will be refunded to successful bidder on receipt of the Performance security money.

GENERAL INSTRUCTIONS

1. Validity of tender: Tender submitted should remain valid for at least six months from the date of opening the tender. Validity beyond six months from the date of opening of the tender shall be lapsed by mutual consent.
2. The tender should accompany a compliance chart.
3. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
4. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the institute website. Prospective bidders are advised to occasionally visit the website (www.iacs.res.in/tender) for any amendment.
5. Payments: 100% against delivery and successful installation or 100% Letter of Credit.
6. Installation/Demonstration/Application training at site: Installation & user training at IACS, free of cost by the supplier.
7. Service facility: In India, preferably Kolkata, supplier should mention their details of service setup and man powers who are responsible for after sales support. Response time should be within 24 hrs.
8. The model number, make and a printed literature of the product should be submitted positively.
9. Proposed delivery schedule should be mentioned clearly.
10. Manufacturers / exclusive distributors / vendors should have history of supplying this type of instruments to this or other scientific organizations. Availability of a list in this regard would be preferred.
11. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly.

12. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.

13. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of the technical bids will be the following working day at the appointed time.

14. In case of any dispute, the decision of IACS authority shall be final and bidding on the bidders.

15. For any clarification regarding technical specifications, information etc., please send your queries to Sugata Ray (mssr@iacs.res.in).

16. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Registrar (Acting)