

DEPARTMENT OF APPLIED MECHANICS

INDIAN INSTITUTE OF TECHNOLOGY DELHI

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NIQ No. IITD/AM2014/

March. 5th 2014

NOTICE INVITING QUOTATION

Please submit technical and commercial bids in separate sealed covers to the undersigned on or before 27th March 2014 for supplying the laboratory furnaces.

The following is the bidder pre-qualification criterion:

- Vendor must have supplied 10 similar furnaces to IITs, IISERs, etc. in the past 5 years. Please attach the reference list of such users with names / phone numbers.
- Manufacturer must be an ISO9001 company and the equipment must be CE mark.

The following are the technical requirements:

Item: 1: Furnace 1100 °C

- 1) Max. Temperature : 1100°C
- 2) Tube Dimensions : L450 mm x Inner ø 30mm x Outer ø 40mm
- 3) Heated Length : atleast 200 mm
- 4) Length Constant Temp. ΔT 10K: not less than 65 mm
- 5) Voltage : 230 V AC / 50 Hz / Single phase
- 6) Quantity : 2 nos.
- 7) Microprocessor PID temperature controller with clear, blue-white LCD display.
- 8) It should be programmable
- 9) Program entry in steps of 1°C or in min.; Status messages in clear texts.
- 10) Start time configurable; Operating hour counter. ; Power usage measurement.
- 11) Non-rust Textured painted / Stainless sheet steel casing.
- 12) Working tube made of C 530 or C610 or C799 ceramic with end.
- 13) Type S thermocouple; Silent Solid State power control Relays.
- 14) Control system built into furnace base and not as separate housing for compact placement.

Item 2: Furnace 1200 °C with Gas & Vacuum operation

- 1) Max. Temperature : 1200°C
- 2) Tube Dimensions : L700 mm x Outer ø 50mm
- 3) Heated Length : atleast 500 mm
- 4) Length Constant Temp. ΔT 10K: not less than 150 mm
- 5) Voltage : 220 V AC / 50 Hz / Single phase
- 6) Quantity : 1 no.
- 7) Microprocessor PID temperature controller with clear LCD display.
- 8) It should be programmable
- 9) Program entry in steps of 1°C or in min.
- 10) Status messages in clear texts and not codes.
- 11) Start time configurable, Operating hour counter, Power usage measurement.
- 12) Skip-button for segment jump, Real-time clock, Interface for software.
- 13) Non-rust Textured painted / Stainless sheet steel casing.

- 14) Working tube made of C610 ceramic
- 15) Type S thermocouple: Silent Solid State power control Relays.
- 16) Control system built into furnace base and not as separate housing for compact placement.
- 17) Gas Supply System: For protective gas applications with nonflammable gases and/ or vacuum operation. Dense longer working tube of ceramic C610 in a gas-tight design. The system can be equipped for vacuum operation. To be Included are: - 2 vacuum/ gas-tight, water-cooled stainless steel flanges with fittings on the outlet side. Mounting Bracket system on furnace for the flanges and tube.
- 18) Gas system for 1 nonflammable protective gases (Ar/ N₂/ Forming Gas / O₂) with shutoff valve and flow meter with control valve (volume 10-100 l/hr), gas outlet valve, piped and ready to connect

Optional items:

- 1) Optical pyrometer that can go upto 1300 °C.

Terms & Conditions:

Warranty	One year comprehensive on-site warranty (parts and labor) required.
Eligibility criteria for the Company	Delivery should be within 4 weeks after purchase order is issued.
	If the quote is submitted by the representative of Principals/Manufacturers, a valid Agencyship/dealership Certificate/MAF specific to this tender should be enclosed together with technical bid.
METHOD OF SUBMISSION	Quotations should be sent in a sealed separate cover marked technical and commercial bids at the top along with our NIQ reference no. and due date. Including commercial information in the technical bid would be grounds for disqualification.
Technical Bid Details	Technical Compliance Sheet: Clear and detailed information on <i>how</i> the technical conditions specified above have been complied with must be given in the technical portion of the bid via a technical compliance sheet. It is insufficient to just mention "Complied" against the above specifications.
	Warranty: Warranty information must be explicitly provided in the technical sheet.
Commercial Bid Details	Breakup: A clear breakup of the individual price of the items should be provided if any.
	Tax/Import: Any taxes/import duties that are expected must be added to the total and the final price should be provided. If any tax/custom duty waiver that has been assumed should be clearly mentioned. Not providing either of these could lead to disqualification. PLEASE ALSO SEE BELOW FOR TERMS AND CONDITIONS FOR ALL IIT DELHI PURCHASES. These terms are valid for the current purchase also.
Buyer's Rights	Buyer reserves the right of accepting or rejecting any/ all quotations.
Validity of Quotations	Quotations will be considered valid for at least three months from the date of receipt unless otherwise stated.
Correspondence	No correspondence regarding acceptance/rejection of a quotation will be entertained.
Rejection	Quotations not conforming to the set procedure as above are liable to be rejected.
Discount/Rebates	Special discount/rebate wherever admissible keeping in view that the supplies are being made for educational purpose in an institute of national importance may please be indicated.

Necessary Terms and Condition to be put in the NIQ/NIT Document

1. IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or fully) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information.
 - a. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
 - b. Forwarder details i.e. Name, Contact No., etc.Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute and Bills of Entry should be submitted to IIT Delhi later on.
2. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
3. If the bidder is an authorized dealer of any manufacturer, the authorized Indian dealership certificate from the principles should be enclosed. Similarly, proprietary certificate for proprietary items should be provided.
4. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.
 - a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.
5. Please quote prices of imported items at FOB (Freight on Board) IIT Delhi inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.
6. Payment Options (any one to be chosen by the Department/ center)
Letter of Credit: 90% payment against shipping documents & balance 10% after satisfactory installation. For large purchase i.e. costing over Rs. 1 crore, 100% payment be made through LC.
Sight Draft: Payment against documents through bank.
Against Delivery: Payment by wire transfer after receipt of material.
Advance payment: pre-payment by wire transfer (for orders less than Rs. 5 lakh)
7. Delivery period: within 1 month from the issue of supply order.
8. Warranty: One year comprehensive on-site warranty (parts and labor) required. Extended warranty may be quoted separately. AMC price beyond one year should be mentioned separately.
9. The quotations must have validity of at least three months.
10. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.
11. Authority of IIT Delhi reserves the right to reject any or all quotations without assigning any reasons.

Sealed quotations should be addressed to Dr. Jayant Jain and can be submitted at Block IV-Department of Applied Mechanics, IIT Delhi, latest by 27.03.2014.

Dr. Jayant Jain
Department of Applied Mechanics
IIT Delhi