

Notice inviting quotations

Dr. M N Dastur School of Materials Science and Engineering (MND-SMSE)

Indian Institute of Engineering Science and Technology, Shibpur

P.O: Botanical Garden, Howrah-711 103, West Bengal, India

Advt. No. AU/D(AA)/17/51

Date: 17.08.2017

Sealed quotations are invited from *bonafide* vendors for repairing and up gradation of: (i) **Chamber Furnace**, (ii) **Horizontal Tube Furnace**, (iii) **Salt Bath Furnace (2 Nos.)**, (iv) **Round Type PIT Furnace (2 Nos.)**. Detail tender documents are available at: - www.iiests.ac.in and at the office of MND-SMSE.

Vendors are requested to visit MND-SMSE to get first-hand information about the condition of furnaces.

Six furnaces installed in the heat treatment laboratory of MND-SMSE need to be repaired and up-graded. We provide below the minimum requirements (in terms of replacement or repair of parts and up-gradation) so that the furnaces can be made operatable and their full potential can be exploited. Please note that these are the minimum requirements that we could assess. Vendors are therefore requested to visit the lab and assess for themselves, if any additional parts are needed.

SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDERS

1. Bidders are invited to submit sealed quotation as per the technical specifications for tendered item to the Head, Dr. M. N. Dastur School of Materials Science and Engineering, on or before **14 working days from the date of publication** between **10.30 a.m. to 5.00 p.m.** except Saturday, Sunday and other public holidays.
2. The tender should reach the office address (mentioned below) **within 14 working days from the day of publication.** Quotations received later will not be entertained under any circumstances.
3. The tender will be opened on the **next working day of due date at 01.00 p.m.** and the place of opening of bid is Head's Office of Dr. M. N. Dastur School of Materials Science and Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah-711103.

4. Bidders are to submit the quotations in Sealed Cover to the Dr. M. N. Dastur School of Materials Science and Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah-711103 at the following address:

HEAD
Dr. M. N. DASTUR SCHOOL OF MATERIALS
SCIENCE AND ENGINEERING
INDIAN INSTITUTE OF ENGINEERING SCIENCE
AND TECHNOLOGY (IEST), SHIBPUR
P.O. - BOTANIC GARDEN, HOWRAH- 711 103, WB,
INDIA

5. TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID for- (a) Tendered items (b) Essential Accessories & Spares.

Advertisement Number must be mentioned on cover

6. Bid requirements

- a) Rate to be quoted in INR per unit basis for each item and **should be inclusive of all charges, taxes, and other payables, if any.**
- b) Bidders are required to submit, along with the quotations, Original Manufacturer's catalogue mentioning technical specifications (if applicable).
- c) The bidder must attach the at least **03 Purchase Order copy** for Supply, Maintenance, Repairing/Up gradation and Installation of furnaces during the last **02 financial years** in Central Government/Central Autonomous Body/Central PSU/State Government or Autonomous/Reputed Private Research Centres (in Nos. and Value). Please attach a list of clients.
- d) The repairing and up gradations of above furnaces will be at the school of Dr. M. N. DASTUR SCHOOL OF MATERIALS SCIENCE AND ENGINEERING, INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY (IEST)-SHIBPUR and repairing and up gradation should include satisfactory demonstration of the working

of the furnaces with their desired potential. If any charges extra are payable for Packing, Freight, Forwarding, Postage Insurance and Installation etc., the same should be specified in the commercial offer.

e) The bids submitted by the vendors should be valid for a minimum period of **90 days** from the date of the opening of tender and the prices should be valid till execution of purchase agreement.

f) All the items to be supplied should be new of good quality and standard and as per the technical specifications mentioned in technical bid document.

g) Discount: Any conditional discount will lead to the rejection of your tender.

i) Interlineations, corrections, erasures and / or over writings shall be valid only if signed by the persons or persons signing the bid.

j) Bidders are required to submit self-attested photocopies of valid Trade-License, PAN Card, latest IT-Return Certificates and GST-Registration.

k) For the proprietary items, the bidders/manufacturers should submit proper proprietary certificate (if applicable).

l) Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender should be submitted with the tender.

m) Envelope containing bids must bear, on the cover itself, name and full address of the bidder, advertisement number and date.

n) For bids submitted by post or courier, it is bidder's responsibility that bids reach the purchaser's office before the scheduled time of closure of submission of bids. The tenders submitted by telex/telegrams/fax/email will not be considered. No further correspondence will be entertained on this matter

o) Installation, Warranty & Support

Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. The items covered by the schedule of requirement shall carry minimum **one year comprehensive warranty** from the date of acceptance by IEST-Shibpur. Warranty shall include free maintenance of the furnaces including free replacement of parts under warranty.

The defects, if any, during the guarantee/warranty period of the parts supplied are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

7. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e., which (a) are properly signed; (b) conform to the terms and conditions, and technical specifications

8. Delivery: All goods to be supplied and/or installed under this contract must be delivered to and installed at the Institute on working days (except Saturday, Sunday and holiday) between 11 a.m. and 4 p.m.

9. If the repair and up-gradation is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.

10. Bills in triplicate should be presented for payment within **45** days of Supply /Completion of work. **No Advance Payment can be made.** All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

11. Customs Duty & Excise Duty

- The University will issue Customs Duty Exemption Certificate for foreign purchase or Excise Duty Exemption Certificate, if required.

12. Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever. Indian Institute of Engineering Science and Technology would not be under any obligation to give any clarifications to those vendors whose tenders have been rejected. The decision of Director, IEST Shibpur is final and binding in case of any dispute arising out of this contract between both the parties. IEST will not provide any accommodation/transportation for the engineers/ representatives for attending installation, commissioning and

demonstration work. It is the absolute responsibility of the Principal Supplier/Indian Agent to make his own arrangements.

We accept the above terms and conditions.

Dated:

Signature of
Bidders/Suppliers
With date & Seal

SECTION II: TECHNICAL SPECIFICATIONS

Sl.	Furnace type	Minimum requirements of the job
1.	Chamber Furnace: Operating Temperature~1200°C	<ul style="list-style-type: none"> a) Replacement of the refractory & door with new refractory and door b) Replacement of the heating element with new heating element c) Repairing of furnace electrical control panel (replacement if required). d) Replacement of the thyristor drive with a new thyristor drive e) Replacement of the power contractor with new power contractor f) New O/T. Cont, Relay, Sensor, Controller etc. to be supplied and integrated with the furnace g) Any other minor accessories/parts necessary for making the furnace operatable with its full potential should be supplied and integrated. h) Complete temperature calibration up to 1200°C should be done.
2.	Repairing & Up Gradation of Horizontal Tube Furnace: Operating Temperature from 700° to 900°C	<ul style="list-style-type: none"> a) Replacement of the Temperature controller with a new PID Temperature controller. b) Replacement of the Thermocouple with a New Thermocouple. c) Complete temperature Temperature Calibration up to 900°C should be done. d) New Tube Flange -2pics should be supplied and integrated.
3.	Salt Bath Furnace: Operating Temperature~600°C	<ul style="list-style-type: none"> a) Replacement of the Temperature controller with a new PID Temperature controller. b) Replacement of the Thermocouple with a New Thermocouple. c) Compensating Cable should be supplied and integrated. d) Electrical Panel Accessories should be supplied and integrated. e) Complete temperature calibration up to 600°C should be done.
4.	Salt Bath Furnace: Operating Temperature~900°C	<ul style="list-style-type: none"> a) Replacement of the Temperature controller with a new PID Temperature controller. b) Replacement of the Thermocouple with a New

		<p>Thermocouple.</p> <p>c) Compensating Cable should be supplied and integrated.</p> <p>d) Electrical Panel Accessories should be supplied and integrated.</p> <p>e) Soft start Switch should be supplied and integrated.</p> <p>f) Complete temperature calibration up to 900°C should be done.</p>
5	Round Type PIT Furnace: Operating Temperature~650°C	<p>a) Replacement of the Temperature controller with a new PID Temperature controller.</p> <p>b) Replacement of the Thermocouple with a New Thermocouple.</p> <p>c) Compensating Cable should be supplied and integrated.</p> <p>d) Complete temperature calibration up to 650°C should be done.</p>
6	Round Type PIT Furnace: Operating Temperature~900°C	<p>a) Replacement of the Temperature controller with a new PID Temperature controller.</p> <p>b) Replacement of the Thermocouple with a New Thermocouple.</p> <p>c) Compensating Cable should be supplied and integrated.</p> <p>d) Complete temperature calibration up to 900°C should be done.</p>

**Dean Administrative
Affairs**

CC.

– with the request to publish the matter in daily newspapers, one each in Bengali and English and send the bill to Prof. S. Chatterjee, Head, MND School of Materials Science and Engineering.