

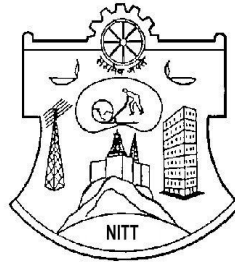
NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 15

Department of Metallurgical & Materials Engineering

Web: www.nitt.edu

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TENDER DOCUMENT

Tender Notification No.: NITT/MME /SN-SK/HT Lab /Furnace/2010

Date: 10.12.2010

- Name of the Component : **Box Type Furnace Temp. 1400°C**
- Quantity required : 1No.
- EMD Amount : Rs 10,000/-
- Delivery : 6 to 8 weeks from the date of purchase order
- Last Date of submission of Tender : **22.12.2010 upto 3.00 p.m.**
- Address for submission of Tender : The Director
National Institute of Technology – Tiruchirappalli - 15
Kind Attention:
Prof.S.Natarajan
Head, Dept. of Metallurgical & Materials Engineering
National Institute of Technology
Tiruchirappalli – 620 015
E-mail: sn@nitt.edu, Mobile: 9486001125
- Date of opening of technical bid : **22.12.2010 upto 3.00 p.m.**



**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI – 15**

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Tender Notification No.: NITT/MME /SN-SK/HT Lab /Furnace/2010

Date: 10.12.2010

NOTICE INVITING TENDER

The National Institute of Technology, Tiruchirappalli (NITT) is an autonomous body under MHRD, GOI, imparting Technical Education and engaged in Research Activities. It is proposed to procure the following component for the departmental academic/research activities.

Sealed Quotations under **two cover system** are invited for the following component subject to the following terms and conditions, from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time. The technical cover will be opened on the same day in the presence of bidders or their authorized agents who may choose to be present.

- Name of the Component : **Box Type Furnace Temp. 1400°C**
- Quantity required : 1 No.
- EMD Amount : Rs.10,000/-
- Delivery : 6 to 8 weeks from the date of purchase order
- Last Date of submission of Tender : **22.12.2010 upto 3.00 p.m.**
- Address for submission of Tender : The Director
National Institute of Technology – Tiruchirappalli - 15
Kind Attention:
Prof.S.Natarajan,
Head, Dept. of Metallurgical & Materials Engineering
National Institute of Technology
Tiruchirappalli – 620 015
- Date of opening of technical bid : **22.12.2010 upto 3.00 p.m.**

Place, Date and time of opening of bid:

Date: - 22.12.2010 **Time:** 3:30 pm **Venue:** Dean (P&D) office/Admin Block

Note : The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong addressee.

SECTION: 1 General Terms and Conditions

1. The bidder should give details of their technical soundness and provide list of customers of previous supply of similar items to Universities, Institutes or Government Departments/Undertakings/public sectors with contact details. The details of the agency/profile should be furnished along with the copy of all related documents

1.1 Bids are to be submitted under two cover system.

Cover 1:

Cover 1 should contain the following:

- a. EMD by Demand Draft drawn on any scheduled bank in favour of "The Director, NIT, Trichy" payable at Trichy should be submitted. EMD shall bear no interest. Any bid not accompanying with EMD is liable to be treated as non-responsive and rejected.
- b. Technical pamphlets
- c. Detailed technical specification
- d. The agency should furnish copy of license certificate for manufacture/supply of the item.
- e. The agency should furnish Income Tax PAN number
- f. Warranty period offered for the tendered item to be specified. If the warranty period is not conforming with the schedule of requirements given in section 3 of the document, the bid is liable to be treated as non-responsive and rejected.
- g. Duly filled up technical questionnaire, if any
- h. Duly filled up deviation schedules to technical specification
- i. Copy of supply orders completed during the last three years ending 31-12-2008.
- j. If the prices are revealed in the cover 1, the offer will be summarily rejected

1.2 The cover 1 shall be super scribed as "Technical cover" duly indicating the Tender reference No. and the due date of opening.

1.3 Cover 2:

Cover 2 should contain the following

Cover 2 shall contain Price only and shall be super scribed as "Price Cover" duly indicating the Tender Reference No. and the due date of opening.

Each Cover shall be sent in a double sealed cover. The inner covers (Cover 1 and Cover 2) should be sealed individually with the seller's distinctive seal and super scribed with the tender reference no. and due date of opening. Both the inner covers shall be placed in a common outer cover which shall also be sealed with seller's distinctive seal and super scribed with the tender reference no. and due date of opening.

Mention "Kind Attention:....., and submit at the address given in the Notice Inviting Tender.

Cover 1 will be opened on the scheduled date and time mentioned in the tender enquiry.

Cover 2 of the technically and commercially suitable offers alone will be opened on a date which will be intimated to the qualified bidders.

2. The agencies should submit their rate as per the format given in Section 4 of the Notice Inviting Tender in this cover. Rate should be quoted in Indian Rupee. The rate should be quoted both in words and figures. All the pages of the bid should be signed affixing the seal. All corrections and overwriting should be initialed.
3. The tender will be acceptable only from the manufacturers or its authorized supplier.
4. The bid shall be in the format of price schedule given in Section 4. The contract form as per format given in section 5 shall be submitted. Incomplete or conditional tender will be rejected.
5. Details of quantity and the specifications are mentioned in Section 3 appended to this Notice Inviting Tender.
6. The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
7. The Institute reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender with a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.
8. Performance Security of 5% of the contract value in terms of Bank guarantee by scheduled banks shall be given by the successful bidder for the total period of warranty.
9. **Release of EMD:** The EMD shall be released after receipt of performance security from successful bidder.
10. **Validity of bids:** The rate quote should be valid for a minimum of 90 days. No claim for escalation of rate will be considered after opening the Tender.
11. **Imports:** In case, goods are to be imported, the Indian agent should furnish authorization certificate by the principles abroad for submission of the bid in response to this Notice Inviting Tender.
12. **Clarification of Tender Document:** A prospective bidder requiring any clarification of the Tender document may communicate to the contact person given in this notice inviting tender.
13. **Amendment of tender document:** At any time prior to the last date of receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the Tender document by an amendment.
14. **The Institute may at its own discretion extend the last date for the receipt of bids.**

15. The bids shall be written in English language and any information printed in other language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.
16. The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids without assigning any reasons therefor. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.
17. The bidder should give the following declaration while submitting the Tender.

DECLARATION

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to have been tampered/modified, I/we understand that my/our tender will be summarily rejected and full Earnest Money Deposit (EMD) will be forfeited and I/we am/are liable to be banned from doing business with NIT, Trichy and /or prosecuted.

Signature of the Bidder :

Name and Designation :

Business Address :
.....
.....

Place :

Date :

Firm

Seal of the Bidder's

18. Any other details required may be obtained from the contact person given in the notice inviting tender during the office hours.

SECTION : 2 CONDITIONS OF CONTRACT

1. The rates should be quoted in Indian Rupee FOR NIT, Trichy for supply within India.
2. In case of import both CIF and / or FOB rate should be quoted. All components of expenditure to arrive at Chennai need to be explicitly specified.
3. The bidder shall indicate the excise duty exemption for the goods if applicable.
4. The Institute is eligible for customs duty and excise duty exemption.
5. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any.
6. Rate quoted should be inclusive of Testing, commissioning and installation of equipment and training.
7. **Payment** : No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier. In case of imports, the payment will be made through LC after installation and performance security need to be submitted at the time of LC commitment.
8. Guarantee and Warrantee period should be specified for the complete period conforming to the section 3 of this tender document.
9. Period required for the supply and installation of item should be specified conforming to the section 3 of this tender document.
10. In case of dispute, the matter will be subject to Tiruchirappalli, Tamil Nadu Jurisdiction only.

SECTION: 3 SCHEDULES OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

Technical Specification for Box Type High Temperature Furnace 1400°C

Furnace shell size	:	≈ 700(W) x 700(H) x 650 (D) mm
Inside chamber volume	:	≈ 200(W) x 200(H) x 300 (D) mm
Useful volume	:	≈ 175(W) x 175(H) x 300 (D) mm
Shell Construction	:	Double Wall High quality fabrication of M. S. Body and M. S. Angle's structure with proper stiffeners and neat powder coat painting
Insulation	:	Total thickness - 200mm in all sides Furnace facing insulation – Cumilag 29 mullite And back up by compressed zirconia fibre
Skin Temperature	:	Double wall structure & special air circulating fan will be provided to maintain the skin temperatures just above ambient

HEATING SYSTEM

Heating elements	:	Silicon carbide (twelve numbers with even distribution)
Hot zone length	:	190mm
Total length of element	:	600mm
Resistance of the element	:	1.24 ohms
Furnace operation	:	three phase/ 230V / AC /50Hz
Power	:	6 kW
Maximum temperature	:	1400°C For 5 hours
Working temperature	:	1350°C (For continuous operation)

CONTROL SYSTEM

Temperature control	:	PID programmer cum Digital Temperature controller cum Indicator
Temperature sensor	:	Pt+Rh13%/Pt – 'R' type thermocouple along with Recrystallised alumina beads and sheath
Accuracy	:	±1°C
Number of sensor	:	One
Power control	:	through the phase angle controlled thyristeElectric &
Indications	:	a) Ammeter b) Mains Indicator c) Out put Indicator
Safety	:	Input, out put fuses

Warranty:

Quantity	:	One built in box with parts specified in technical speciation along with accessories
Any other details/requirement	:	The specification provided is minimum requirement
Delivery schedule expected after release of work order	:	6 to 8 weeks
EMD (in Rupees)	:	Rs. 10,000/-
Performance Security to be given by Successful bidder after release of work order	:	5% value of the work order
Warranty period required	:	3 Years Warranty inclusive of heating elements, thermocouple and all necessary accessories

Note : Furnace should be operated at 1400°C for 24hrs during installation. Then only, the payment will be released.

SECTION: 4 PRICE SCHEDULE

[To be used by the bidder for submission of the bid]

-
1. Component Name :

 2. Specifications (confirming to Section 3 of Tender document-enclose additional sheets if necessary) :

 3. Currency and Unit Price :

 4. Quantity :

 5. Item cost (Sl.No.3 & Sl.No.4) (in Indian Rupee) :

 6. Taxes and other charges
 - (i) Specify the type of taxes and duties in percentages and also in figures :
 - (ii) Specify other charges in figures :

 7. Warranty period (conforming to the Section 3 of Tender document. This should be mentioned in Technical bid also in order to get qualified for Financial bid) :

 8. Delivery Schedule (conforming to the Section 3 of Tender document) :

 9. Name and address of the firm for placing work order :

 10. Name and address of Indian authorized agent (in case of imports only) :

Signature of the Bidder :

Name and Designation :

Business Address :
.....
.....

Place :

Date :

Seal of the Bidder's Firm

SECTION: 5 CONTRACT FORM

[To be provided by the bidder in the business letter head]

1. {Name of the Supplier's Firm) hereby abide to deliver theby the delivery schedule mentioned in the Section 3 tender document for supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in the tender document without any defect and deviations.
3. Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NIT, Trichy during this period.

Signature of the Bidder :

Name and Designation :

Business Address :
.....
.....

Place :

Date :

Seal of the Bidder's Firm