

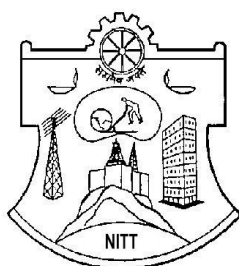
# NATIONAL INSTITUTE OF TECHNOLOGY

## TIRUCHIRAPPALLI – 15

### Department of Production Engineering

Web : [www.nitt.edu](http://www.nitt.edu)

Phone : 0431 - 2503500



# TENDER DOCUMENT

**Tender Notification No.: NITT/ICSR/PROD/DS/DST/08-09/21**

Name of the equipment : WEAR AND FRICTION MONITOR

Quantity required : One

Estimated amount put to Tender : Rs.9,65,000/-

EMD Amount : Rs. 25,000/-

Delivery : within four weeks from the date of purchase order

Last Date of submission of Tender : 30.12.2008

Address for submission of Tender : Dr. M. Duraiselvam, Assistant Professor  
Department of Production Engineering  
National Institute of Technology  
Tiruchirappalli – 620 015  
E-mail : [durai@nitt.edu](mailto:durai@nitt.edu)  
Mobile : 9994373486

Date of opening of technical bid : 30.12.2008



**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI – 15**

**DEPARTMENT OF PRODUCTION ENGINEERING**

**Tender Notification No.: NITT/ICSR/PROD/DS/DST/08-09/21**

**Date: 11.12.2008**

**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 equipment for the departmental academic/research activities.

Sealed Quotations 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. Each bidder is instructed to send two bids, one commercial (price) bid and one technical bid in separate sealed cover and put together in a single sealed cover. The quotations will be opened on the next day in the presence of bidders or their authorized agents who may choose to be present.

Name of the component : WEAR AND FRICTION MONITOR  
Quantity required : One  
Estimated cost : Rs.9,65,000/-  
EMD : Rs. 25,000/-  
Time for completion of supply after placing purchase order : 1 month  
Last Date of submission of Tender : **30.12.2008**  
Tender to be submitted at the following address : Dr. M. Duraiselvam, Assistant Professor  
Department of Production Engineering  
National Institute of Technology  
Tiruchirappalli – 620 015

***Place, Date and time of opening of bid*** :

**Date: 30.12.2008**

**Time: 3.00 p.m.**

**Venue: NITT/Stores**

**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 INSTRUCTION TO BIDDER

1. The agencies 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 **Documents to be submitted with the Technical Bid:**

- (i) Copy of licence certificate for manufacture/supply of the item.
  - (ii) Income Tax PAN number
  - (iii) Catalogue of the product with detailed product specifications
  - (iv) 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.
  - (v) EMD in the form of 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.
  - (vi) Price bids of only those who are technically qualified will be opened.
2. The agencies should submit their rate as per the format given in Section 4 of the Notice Inviting Tender in this cover. 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.  
***The bid cover should be duly superscribed with the following details.***  
***(1) Tender Notification Number (2) Tender for the supply of ..... (3) Date of opening .....***  
***Mention "Kind Attention: Contact's person's name and phone number", and submit at the address given in the Notice Inviting Tender.***
  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 60 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. 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 be 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 :**

**Seal of the Bidder's Firm**

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

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1. The rates should be quoted for 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 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 SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

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Name of the Equipment to be procured : WEAR AND FRICTION MONITOR

### Specifications:

#### Pin-on-Disc Type

1. Pin Size (Diagonal / Diameter) : 3 to 12 mm
2. Disc Size (Diameter x Thickness) : 165 x 8 mm
3. Wear Track Diameter (Mean) : 50 to 100 mm
4. Sliding Speed Range (m/sec) : 0.5 to 10
5. Disc Rotation Speed (RPM) : 200 to 2000
6. Normal Load (N) : 5 to 200
7. Tangential Force (N) : 0 to 200
8. Wear Measurement Range ( $\mu\text{m}$ ) : 0 to 2000
9. Exclusive Pin Heating\* ( $^{\circ}\text{C}$ ) : Ambient to 400
10. Preset Timer (Hr/Min/Sec) : 99/59/59
11. Power (V/A/Ph/Hz) : 230/15/1/50
12. Software : Should capable of acquiring data online and display / record wear, friction and pin temperature.

\* The project requires special requirement of exclusively heating the pin and not the counterpart (disc) during experimentation. Since it is a critical requirement, the supplier should provide details of supply of similar equipment (with exclusive pin heating) to Universities / Institutes, with contact details, to prove their competency.

In addition to the above, the following requirements are mandatory:

- Eliminate the parasitic effects to obtain the True Wear Data.
- Ability to compare and export data for better analysis.
- Auto Shut-off after pre-set time.
- Flexible pin holder to accommodate pin or block.

Quantity : 1 Nos.

Any other details/requirement : Indicate the accessories needed for complete utility of the instrument which are not included in the quote, separately with their cost

Warranty period required : 1 Year from the date of commissioning

Delivery schedule expected after release of purchase order (in weeks) : 4 weeks

EMD (in Rupees) : Rs.25,000/-

Performance Security to be given by Successful bidder after release of purchase order (in Rupees) : 5% of the equipment cost



**SECTION : 4 PRICE SCHEDULE**

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

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- 1. Equipment Name :
- 2. Specifications (confirming to Section 3 of Tender document-enclose additional sheets if necessary) :
- 3. Currency and Unit Price (in Indian Rupee) :
- 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 (confirming 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 (confirming to the Section 3 of Tender document) :
- 9. Name and address of the firm for placing purchase 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 ]

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1. {Name of the Supplier's Firm) hereby abide to deliver the .....by 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**