



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
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Dr. Ashis Kumar Sen
Project Coordinator

Ref: IITM/ME/FSL/AS/SERB/RHM
Dated: 31.07.2020

Limited Tender No: IITM/ME/FSL/AS/SERB/RHM

Due Date: 20.08.2020, 5:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 21.08.2020, 4:00pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**Supply and Installation of Rheometer**” conforming to the specifications given in (**Annexure-I**).

Terms and Conditions of Limited Tender

- 1. Preparation of Bids:** - The Limited tenders should be submitted under **Two bid system** (i.e.) Technical- and -Financial bid.
- 2. Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier (duly sealed and super scribed on the envelope with the reference No and due date) so as to reach the following address before the due date and time specified in our Schedule:
Dr. Ashis Kumar Sen
Associate Professor
Room No: FF 05, CFD Building
Fluid Systems Laboratory,
Department of Mechanical Engineering
IIT Madras
Chennai - 600 036
- 3. Price:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Mechanical Engineering**.
 - a. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.
 - b. In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP (stating the Cost, Insurance, Freight separately) and indicating the mode of shipment.
- 4. Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- 5. Catalogue:** Original catalogue (not any photocopy) of the quoted model duly signed must accompany the quotation in the Technical bid

6. **Late offer:** - The offers received after the due date and time will not be considered
7. **Payment:** - No Advance payment will be made for Indigenous purchase. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
8. **Advance Payment:** - No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a Nationalized Bank of India equal to the amount of advance payment.
9. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within number of days (as prescribed by PI's) from the date of receipt of the item at site of IIT Madras.
10. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment.
11. **Validity:** Validity of Quotation not less than 60 days from the due date of tender
12. **Technical Bid Opening:** The technical bid will be opened on **21.08.2020 4:00pm** at the Department of Mechanical Engineering, IIT Madras and the **financial bids** of those tenders who are technically qualified will be opened at a **later date under intimation to them**.
13. **Performance Security:-**The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply within 14 days from the issue of work/purchase order. The Performance Security should be furnished in the form of an Account Payee DD / FD Receipt from the commercial bank (or) Bank Guarantee from any nationalized bank in India.
14. **Accept /Reject:** IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.
15. **Settlement of Disputes:** Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
16. **Risk Purchase Clause:** - In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
17. **Unsolicited offers:** “This notice is being published **for information only** and is not an open invitation to quote in this limited tender. Participation in this tender is by invitation only and is limited to the selected registered suppliers. Unsolicited offers are liable to be ignored. However, suppliers who desire to participate in such tenders in future may apply for registration as per procedure.” The Website for Registration of vendors is <http://web.iitm.ac.in/supplier/> and the mail address for queries is “ workflow@rt.iitm.ac.in “.

Yours sincerely,

Dr. Ashis Kumar Sen
Associate Professor
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TECHNICAL SPECIFICATIONS FOR PURCHASE OF RHEOMETER

Sl. No.	Name of Equipment	Minimum Requirements	Quantity
01	Computer controlled rheometer	<p>(1) Computer controlled rheometer with a ball bearing supported electronically commutated synchronous motor drive system to perform rotational and oscillatory tests (amplitude and frequency sweep); direct strain and stress control; allowable strainrate 1000 (1/s) or more.</p> <p>(2) high energy efficiency by using air cooled peltier temperature control systems</p> <p>(3) easy handling and high precision in measuring gap;</p> <p>fully automatic stand for a high precision automatic zero-gap-setting procedure without user action;</p> <p>gap illumination measuring, automatic tool recognition and intelligent configuration system;</p> <p>quick-fitting coupling for measuring geometries</p>	01
02	Temperature control device	<ul style="list-style-type: none">- for cone/plate and parallel plate measuring geometries- for mounting screw-on measuring plates- with integrated fan for counter cooling- temperature range: - 10°C to 400 °C- horizontal/vertical temperature control	01

03	System control and Rheometer Software	single lab software license including one rheometer driver; upgradable to oscillatory mode and should run with Microsoft Windows 7/8/8.1/10	01
04	Removable/disposable geometries	(1) Automatic tool recognition and configuration; (2) Shaft for disposable measuring system; (3) PLATE D: 50 mm, stainless steel; (4) PLATE D: 25 mm, stainless steel; (5) CONE D: 50 mm, angle 1°, stainless steel.	01 (for each geometry)

The vendor should provide a warranty period of at least three years for all the components of computer controlled rheometer unit. Installation to be done by the vendor for free of cost and service and maintenance should be done by the vendor as and when required. Allowable educational concession must be applied while quoting.