



Letter No. IIITDM/P&S/2025-26/410
Dated: 06-11-2025

To,

Email:

Phone:

Sub: Inviting quotation for Dilatometer

Dear Sir/Madam,

The Institute intends to procure a Dilatometer (as per the specification provided in Annexure-I) for one of its sponsored research projects. You are invited to participate in this bidding process and submit your quotation for the Dilatometer with the following terms and conditions.

You may kindly give your lowest offer on the following terms and conditions by 15th November 2025.

- 1) Interested Firms / Parties should submit documentary proof (photocopy) of the following:
 - a) Valid Registration Certificate of the firm.
 - b) GSTIN and PAN Number
 - c) Experience of executing / supplying such orders to any other Government / Educational Institution / Reputed Firms.
- 2) The rates quoted should be FOR Destination inclusive of all taxes/statutory levies (excise duty, sales tax, Octroi, Entry tax, GST or any other local/state/central Govt. taxes). No extra charge will be entertained by IIITDM Jabalpur. Quote a single price for complete equipment including taxes rather than the individual components.
- 3) The product shall be under warranty for the period specified in the detailed specifications in Annexure-I. The specification “complied” or “not complied” need to be marked in the Annexure I.
- 4) The supplier must provide service and support for the repair/replacement of any component / module for a minimum of 1 year from the date of supply.
- 5) Delivery should be **within 1 month** from the date of receipt of the work order.
- 6) Sealed quotation should reach on or before **05:00 PM, 21/11/2025**, to the **AR(Purchase), PDPM-IIITDM Jabalpur, Dumna Airport Road, Mehgawan, Jabalpur-482005**. Alternatively, duly signed quotations on the letter head of the firm can be submitted through email also at the following email addresses: arpurchase@iiitdmj.ac.in and itiwari@iiitdmj.ac.in within the same deadline of **05:00 PM, 21/11/2025**.
- 7) The Institute reserves the right to reject any or all bids without specifying any reasons thereof.



- 8) For any technical queries / clarification, please contact the undersigned at the following email address: jtivari@iiitdmj.ac.in. Mobile number: 6260438595
- 9) Any loss or damage to the items while handling / transporting, till such time the items are delivered and successfully installed / commissioned in this institute is the responsibility of supplier/dealer.
- 10) The bidder is required to submit a Performance Bank Guarantee (PBG) equivalent to 5% of the Purchase Order (PO) value (excluding GST) as a security deposit for a period of 14 months after the award of the work
- 11) All disputes should be within the jurisdiction of Jabalpur.

Thanking you,

(Dr. Jitendar Kumar Tiwari)
Project Investigator

Technical Specifications for Dilatometer

General Description: The Dilatometer should be designed to measure dimensional changes in materials under controlled heating conditions. It should operate up to a maximum temperature of 1400°C. It should features high-quality alumina components for thermal stability, precise measurement systems, and integrated data acquisition capabilities for reliable and accurate testing with warranty period of one year. The specifications of the desired Dilatometer are as follows:

Specification		Details (required by indenter)	Details (complied or not complied)
1. Heating System			
Maximum Temperature		Up to 1400°C	
Heating Element		Silicon Carbide (Single-Ended Type)	
Temperature Uniformity		±1°C within the heating zone	
Temperature Sensor		R-Type Thermocouple	
Temperature Controller	Type	Digital Profile Temperature Programmer	
	Segments	Minimum 16 segments for ramp/soak programming	
	Accuracy	±1°C	
2. Sample and Sample Holder			
Sample Holder		Made of high-quality Alumina 99.5-99.7 %	
Push Rod Material		Alumina	
Reference Sample Size		6 mm Diameter x 20 mm Length	
Reference Sample Material		High quality Alumina	
Sample Compatibility		Rigid and compatible with various materials types	
3. Measurement System			
LVDT	Type	Spring-loaded plunger	
	Displacement Range	±2 mm	
	Accuracy	±0.5% of Full Scale	
	Cable Length	3 meters	
	Output	RS-232 for continuous data transfer	
Digital Displacement Indicator	Display	3.5 Digit Digital display	
	Resolution	0.001 mm	
	Features	Push to TARE facility	
4. Data Acquisition and Monitoring			
Software		Provided and PC is Customer scope (i3 or i5)	
Input		Temperature and LVDT readings	
Features		Real-time monitoring, data recording, and graphical representation of results	
Connectivity		RS-232/RS485 interface	
5. Power Supply			
Power Requirement		Single-phase, 230V, 50 Hz, Indian standard	
Earthing		Good earthing required	
Display Features		Load Current Load Voltage Power	
Protection		Input MCB provided for safety	

Note: Vendors are requested to provide the details (Brochure) for the offered product.