Enquiry No: IITK/ME/sameer/2013/01 Dated: 12 September 2013

Quotations are invited for the purchase of a **Flash Diffusivity Testing Apparatus for common engineering materials (solids/liquids)** to be used for measuring temperature and thermal diffusivity conforming to International standards such as ASTM E 1461. The detail requirement is furnished below:

1. Sample size: up to about 25 mm diameter or smaller.
2. Temperature range: Ambient to 300°C as well as possibility for below room temperature with add-on/external control.
3. Wide range of Thermal Diffusivity Range (for example 0.01 mm^2/s to 950 mm^2/s or more).
4. Wide range of Thermal Conductivity: (For example 0.05 W/(m·K) to 2000 W/(m·K) or more)
5. Repeatability:
    i. Thermal Diffusivity: below about +/-3 %
    ii. Specific Heat: below about +/-3 %
6. Accuracy:
    i. Thermal Diffusivity: of the order of +/-5 % or better
    ii. Specific Heat: of the order of +/-5 % or better
7. Flash Source:
    i. Suitable Flash Lamp (fopr example Xenon beased) with controllable Pulse characteristics.
8. Sensor Type: InSb IR Detector with integral dewar
9. Utilities:
    i. Indian AC power conditions, 230 V - 50Hz, 15 Amp - Controller
10. A comprehensive instruction manual.

Terms and Conditions:

1. Prices should be on FOB and CIF (IIT Kanpur)
2. Prices should include installation and training cost, and all additional charges including freight, insurance etc.
3. Discount: maximum educational-discount to be provided.
4. Warranty: no less than three (03) years after installation.
5. Quotation validity: no less than 90 days from the date of quotation submission
6. Quotations should carry proper certifications such as, agency certificates, proprietary certificates, printed company profile, detail technical specification, user-list with phone numbers.
7. AMC options to be included.

Kindly mention "Flash Diffusivity: IITK/ME/sameer/2013/01" on sealed envelope carrying quotations and additional literature including technical details. **Technical and financial bids** need to be submitted separately. The envelopes, duly sealed, should reach the following address **on or before 25th September, 2013**. Any questions, technical or otherwise should be directed to the undersigned via fax, phone and/or e-mail.

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