

अभियांत्रिकी अभिकल्प विभाग, भारतीय प्रौद्योगिकी संस्थान मद्रास, चेन्नै

Department of Engineering Design, Indian Institute of Technology Madras

Reference No.: EDD/09/2015-16/DSTX/NILE/01

Date: 30 September, 2015

Due Date: 23 October, 2015

Subject: INVITATION FOR QUOTATIONS FOR SUPPLY OF A SPECTROMETER SYSTEM. (Quantity: ONE NUMBER)

Dear Sir/ Madam,

1. Quotations are invited in duplicated for the various item shown below over leaf/enclosed list.
2. The quotations are to be **two parts – one Technical Offer and one Commercial offer**:  
The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the one bigger envelope duly sealed and super scribed with reference number and date and due date must be addressed to the under signed so as to reach him on or before the due date stipulated above.
3. The Quotation should be valid for (60) sixty days from the due date and the period of delivery required should also be clearly indicated.
4. **Local Firms**: Quotations should be for free delivery to this Institute. If quoted for Ex -godown, delivery charges should be indicated separately.
5. **Firms outside Chennai**: Quotations should be for F.O.R Chennai / F.O.B. Chennai / CIF Chennai (Including Insurance and Freight Charges). If Ex-Works, Packing, forwarding and freight charges must be indicated.
6. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
7. The rate of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Wherever this is not done, no claim for any taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional sales tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificates will be issued at the time of final settlement of the bill.
8. IIT Madras is exempt for payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demond. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport / Seaport. Hence the price should not include the above charges.
9. Goods should be **supplied by carriage paid and insured**.
10. Goods shall not be supplied **without an official supply order**.
11. **Payment**: Every short effort will be made to make payment within 30 days from the date of bill / acceptance of goods whichever is later.
12. The Warranty of the item should be at least 12 months.
13. In case of LC. Payment 90% of the payment will be made after completion of the supply. The balance 10 % of the payment will be made after satisfactory installation of the equipment.
14. **Acceptance and Rejection**: - IITM has the right to accept the whole or any part of the Tender or portion of the quantity offered or rejects it in full without assigning any reason.

Page No: 1/2

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Indian Institute of Technolog Madras  
Chennai - 600 036, India

You may kindly provide a quotation for A **Spectrometer System (Quantity: One Unit)** satisfying following specifications.

1) Near Infrared Spectrometer System consisting of following components to operate in the  $1\mu\text{m}$  to  $2.8\mu\text{m}$  wavelength range or wider. The OEM supplier should provide fully integrated system and optimized with all components for proper functioning of the spectrometer.

1.1) Monochromator: Triple grating monochromator, focal length of 300mm or more to provide resolution of 0.2 nm or better. Variable entrance and exit slits with or without motorized configuration. Motorized grating unit with gratings optimized to cover the complete range  $1\mu\text{m}$  to  $2.8\mu\text{m}$  or wider.

1.2) Filter unit with motorized drive and order sorting filters to cover the spectrometer range.

1.3) Detector system: PbS, TE cooled with required power supply, area:  $3\text{ mm} \times 3\text{ mm}$ , Spectral sensitivity at wavelength (peak) greater than  $1 \times 10^4$  V/W should be included. Alternatively, InSb or an equivalent detector satisfying the above.

Detector system should also include necessary power supply unit, controller for Te-cooled detector.

1.4) Chopper and controller module with an appropriate head and blade set and mounting system should be included.

1.5) Output amplification system: Programmable current pre-amplifier and a dual channel, phase insensitive DSP lock-in amplifier with 16 bit ADC, auto-ranging, and consisting of graphical display.

2) All components should be USB compatible for ease of operation.

3) Preinstalled software in an appropriate data acquisition system in windows environment to control the complete spectrometer system and to acquire data should be included.

4) It should be possible to enhance the spectrometer system for the measurements up to wavelength of  $5\mu\text{m}$  or more in future.

5) Calibration report and spectrometer output with a suitable source should be provided before the shipment of the system.

6) The vendor should have supported similar systems for 5 years minimum in India. Please enclose a list of customers.

7) The warranty for the above equipment should be at least 12 months. The year-wise cost of extended warranty for two more years following the expiry of the normal warranty period for the equipment should be quoted. Please provide input on packaging charges, delivery charges (Freight and Insurance etc. till Chennai, India), Delivery period, Sales Tax (if any), Validity period for the quotation, Payment terms and all the relevant terms and conditions.

The quotation should include technical and commercials details. **The due date for receiving the quotation is 23 October, 2015 (on or before 2:00 pm Indian Standard Time)**. Any quotations received after the deadline prescribed above will not be accepted. The quotation (**duly signed hard-copy**) should be sent to the following address.

**Address:**

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