

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, RAJA S. C. MULLICK ROAD, JADAVPUR, CALCUTTA 700 032, INDIA**

Tender Notice No: IACS/SP/PCS/13/35 dated 18.09.2013

Sealed tender in two bids system (**Technical Bid & Financial bid**) is invited from bonafide, resourceful and eligible manufacturers/exclusive distributors for “**FTIR spectrometer with ATR accessory**”.

Part I (Technical Bid) of the tender should contain technical details and commercial terms and conditions and **Part II (Price Bid)** should indicate group-wise price as mentioned in the Technical Bid where applicable. The Technical Bid and Price bid are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and super scribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Complete tender bids should reach the office of the **Spectroscopy Department, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata 700032** on or before the scheduled date & time specified below.

Tender Notice Number	IACS/SP/PCS/13/35 dated 18.09.2013
Last date and time of submitting tender	7th October 2013 (11 AM)
Pre bid meeting to discuss technical specifications	30th September 2013
Date and time of opening tender	7th October 2013 (3 PM)
Place of opening Tender	J. C Bose Meeting Room, IACS
Contact	sppcs@iacs.res.in

The **Technical bids** will be opened first to evaluate the technical specifications of the equipment there after the **Price bids** of only technically qualified bidders will be opened.

1. TECHNICAL BID:

The Technical Bid should contain technical specifications and kept in a separate envelope duly super scribed as Technical Bid on the outer side of the envelope as detailed above.

Wavelength Range: 8000 ó 350 cm⁻¹ or further extended

Spectral Resolution: 0.4 cm⁻¹ or better

Wavelength Precision: 0.008 cm⁻¹ at 2,000 cm⁻¹

Wavelength Accuracy: 0.02 cm⁻¹ at 2,000 cm⁻¹

Signal-to-Noise: 15,000:1 peak-peak 5 seconds scan; 50,000:1 peak-peak 1 minute scan

General: Sealed and desiccated optical unit and Vibration isolated base-plate, preferred.

Interferometer: Michelson interferometer for fast scanning, self-compensating for dynamic alignment changes due to a tilt and shear

Source: Should be user replaceable long-life source

Detector: Temperature stabilized DTGS detector, preferred

ATR Accessory (directly from FTIR manufacturer preferred, instead of Indigenous or Third-Party):

A. Attenuated Total Reflectance Polarization Accessory: FTIR unit must be offered with Universal Attenuated Total Reflectance Polarization accessory which combines the sampling benefits of a **standard ATR accessory with the ability to acquire polarized IR spectra. ATR Polarizing Accessory must include:**

- Automatic recognition - as soon as the accessory is placed in the sample compartment the ATR module must be recognized along with its serial number, type of ATR crystal and system suitability checks must be carried out.
- Top-Plate should include a single reflection Diamond with ZnSe focusing optics.
- Automatic optimization - the optics should be automatically optimized for the different top-plate options.
- Zero alignment, zero set-up - once locked into the FTIR sample compartment, the accessory must be ready to be used without any alignment necessary.
- Pressure arm with pressure sensor must be supplied as standard.

ATR module must have Integrated Polarizer

B. Transmission Accessories: FTIR unit must be offered with 1) Demountable Cell Mount, 2) set of KBr Windows 3) Assorted Rectangular Spacers, 4) 13 mm KBr Die Set, 5) Potassium Bromide Pellet Holder, 6) Adjustable Adaptor and 7) Rechargeable Desiccant Kit

C. The instrument should be offered with power pack to serve as an uninterrupted Power Supply (UPS) for 20 mins.

Warranty: Twelve months against any manufacturing defect.

Installation: Free of Cost

Training: Free of Cost

User list: The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India.

Service facility: Supplier should mention their details of service setup who are responsible for after sales support. Response time should be within 24 hours.

2. PRICE BID:

The financial bid indicating price for the item (s) mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as **“PRICE BID”** on the outer cover of the envelope as already detailed above. The price bids of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email ids. Rest of the bids will stand rejected.

PRICE: Price to be quoted both on FOB/CIF basis. Name of the particular Port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB price.

3. BID SECURITY:

- 1) The financial bid should be super scribed as “**PRICEBID**” on the outer cover of the envelope.
- 2) **Bid Security (EMD):** An Account Payee Demand Draft of **Rs.60,000/-** in the name of "**Indian Association for the Cultivation of Science**" is to be furnished by the bidders as Bid Security money or Earnest Money Deposit (EMD).
- 3) The Demand Draft for the Bid-Security money should have at least 45 (forty five) days validity period after the opening of the Bids.
- 4) In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft of **10% of the order value** in the name of "**Indian Association for the Cultivation of Science**" is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money will be refunded to successful bidder on receipt of THE Performance security money.

4. General Instructions:

1. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
2. Tender Notice Number and tender for "ATR-FTIR" should clearly be written on the envelope
3. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website.
4. Prospective bidders are advised to occasionally visit the website (www.iacs.res.in/tender) for any amendment.
5. Payment: 100% against delivery and successful installation subject to submission of performance guarantee.
6. Warranty: Minimum 1 years.
7. Installation/Demonstration/Application Training at site: Free of cost by the supplier
8. **Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours.

9. **Validity of tender:** Tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
10. The tender should accompany a compliance chart.
11. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
12. The model number, make, and a printed literature of the product shall submit positively.
13. Proposed delivery schedule should be mentioned clearly.
14. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.
15. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
16. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
17. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.
18. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
19. For any clarification regarding technical specifications, etc. please send your queries to Dr. Prashant Chandra Singh sppcs@iacs.res.in.
20. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

REGISTRAR