

**INTER UNIVERSITY ACCELERATOR CENTRE  
ARUNA ASAF ALI MARG, POST BOX NO: 10502  
NEW DELHI-110067**

**NOTICE INVITING TENDER**

**Tender No: IUAC/NIT/09/FS/2017-18**

Name of the work: **Supply of Fourier Transform Infra Red (FTIR) spectrometer with accessories (Preferably with buy-back offer).**

Last Date and Time of Submission of Tender: **01/11/2017 at 3.00 p.m.**

Date & Time for opening of Tender: **01/11/2017 at 3.30 p.m.**  
**(Technical bid part-A)**

Date & Time for opening of price bid: Will be intimated later on to technically qualified bidders.  
**(Price Bid Part B)**

**Address for submission of tender:** Administrative Officer (S&P),  
Inter-University Accelerator Centre (IUAC)  
Aruna Asaf Ali Marg, Post Box: 10 502  
New Delhi - 110067

**Place of Opening of the Tender:** Inter-University Accelerator Centre

Note: Any clarification/amendment/corrigendum etc. to NIT before the last date of submission of bids will be published only on website: [www.iuac.res.in](http://www.iuac.res.in)

**EXISTING FACILITY:**

**IUAC is having a facility of FTIR Model No: Nicolet 670 supplied by Thermo Electron USA in year 2003. Bidders are suggested to offer Buy back option for the existing spectrometer (It may be noted that this spectrometer is presently not working).**

**GENERAL CONDITIONS OF TENDER:**

**1. Submission of Tender:** Tenders should be submitted in sealed envelope in two Parts separately, i.e. "Technical bid" (Part-A) and "Price bid" (Part-B). Both the parts should be further sealed in an envelope super-scribing NIT No & name of work, due date for opening, bidders name & address. The tender duly filled in may be sent to above mentioned address either by post or hand delivered in the **tender box kept in the area near west side entrance, after ensuring that due entries are made in the register kept at the counter.** It should not be handed over to any employee of the Centre. **No tender shall be accepted later than the time schedule specified above.**

**2. Technical Bid (Part-A) :** In this, the bidder should submit his company profile, organizational setup, credentials, and copies of successfully executed work orders for reputed laboratories/Institutes during the last three years. No deviations in respect of NIT conditions are acceptable. **The bidders are required to attach entire NIT (except for the price bid part) duly signed & stamped as a token of acceptance to the NIT conditions with this bid. The following specific conditions are essential for pre-qualification:-**

- a) Bidder must be the principal suppliers or their authorized agents.
- b) They should have some history of supply of spectrophotometers in any Institute or university in India (a list of such users should be attached).
- c) Service/Technical support should be available in India.
- d) Entire NIT (except Price bid) duly signed & stamped by the bidder.

No deviations from the technical specifications listed above will ordinarily be permitted. However, the IUAC reserves the right of final decision regarding acceptable technical specifications.

**3. Price Bid (Part-B):** In this bid, the bidder is required to quote the price of item in FOB and CIF, New Delhi basis, for the works/supply mentioned in the scope of work & technical specifications. The bidders should quote unconditional rates, neatly written without any overwriting and duly signed & stamped on all pages. *The price offered to the existing facility on buy back option should also be mentioned.*

**4. Earnest Money Deposit (EMD):** NIL

**5. Validity of Tender:** Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of **90 (ninety)** days from the date of opening of price bid.

**6. Escalation:** No escalation over and above items rates quoted by the bidder shall be paid during the execution of contract.

**7. Scope of Work:** *Supply of FTIR with accessories at IUAC.* Detailed specifications are enclosed with this NIT as Annexure A.

**8. Deviations:** No deviation from the stipulated terms and conditions will be allowed. However, bidder may suggest deviation conforming to the requirement stimulated in technical specification. Tenders should be unconditional.

**9. Correspondence:** All the correspondence in respect of tender/contractual obligation shall be made to the Admn. Officer (S&P), Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-110067, India.

**10. Terms of Payment:** The payment shall be made through Letter of Credit. 90% payment shall be through L/C against shipping documents and 10% on completion of guarantee period of one year. However, 100% payment may be released, if the supplier provides a Performance Bank Guarantee of equivalent amount of 10%.

**11. Guarantee/Defect liability period:** The bidder should guarantee for the works/items executed/supplied by him from the manufacturing/engineering defect and bad

material/workmanship for a period of two years from the date of successful installation at IUAC. During this period if any replacement of items and/or repairs/ rectification is needed, the supplier shall make the same available at supplier's cost.

**12. Testing:** Original copies of all test reports /certificates etc.should be provided to IUAC.

**13. Documents and Manual:** All the mechanical, electrical and electronics drawing and circuit details of the supply items should be provided. Hard copies of Two sets of the operation and maintenance manual should be provided without additional cost.

**14. IUAC reserves the right** to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the IUAC in this regard will be binding on all the bidders. Tenders not complying with any of the provisions stated in this tender document are liable to be rejected. **Director, IUAC reserves the right to accept or reject any tender without assigning any reason and does not bind himself to accept the lowest tender.**

**15. Liquidated damages:** In case the work is delayed beyond the specified completion period for reasons attributable to the bidder, deductions on account of liquidated damages @ 0.5% of the order value per week will be deducted subject to a maximum of 5% of the total works.

**16.** Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi/Delhi.

Accepted

(Signature of bidder)

Note: - Entire NIT (except price bid) is to be attached with "Technical bid (Part-A)" duly signed & stamped by the bidder.

## ANNEXURE-A

### **Supply of Fourier Transform Infra Red (FTIR) Spectrometer with accessories** (Preferably with buy-back offer)

#### **TECHNICAL SPECIFICATIONS of FTIR Spectrometer**

- [1]. **Interferometer** : Highly stable and permanently aligned
- [2]. **Spectral range** : 6000 – 100 cm<sup>-1</sup> or better (Single source, single beam splitter and single detector without change of any optical components like source, beam splitter and detector)
- [3]. **Spectral resolution** : 0.5 cm<sup>-1</sup> or better
- [4]. **Light source** : Suitable IR sources of High quality, high performance and longer life should be supplied to cover the MIR/FIR range
- [5]. **Detector** : To meet the requirement of the spectral range and resolution as motioned above.
- [6]. **Diamond ATR accessory** : The system should be quoted with this for covering complete spectral range.
- [7]. **Operating temperature** : 15 – 35 °C
- [8]. **Operating Voltage** : 220V at 50Hz
- [9]. **Wavelength calibration** : Automatic with software
- [10]. **Photometric accuracy** : 0.1% or better
- [11]. **Spectral precision** : ±0.01 cm<sup>-1</sup> or better.
- [12]. **Computer hardware and Software:** Latest Windows based software for the complete instrument & accessory control, data acquisition and data processing along with latest Branded PC (with i7 processor, 1TB hard disk and genuine windows operating system or better). Any update should be taken care by supplier upon release of new version without additional cost during the warranty period. System should come with standard anti-virus software.
- [13]. **Spares:** Recommended spares for smooth operation of 5 years.

- [14]. System should come with 10 years warranty on interferometer design and two year or more years of standard warranty.
- [15]. The FTIR should have at extra input beam ports and output beam ports for future upgrades.
- [16]. The system should be supplied with standard library for samples, sample holders for thin films and standard samples for calibration.
- [17]. Future upgrade: The spectrometer system should be able to upgrade with IR microscope and other hyphenated techniques like Polarization modulation accessory with Photoelectric modulator module, FT-RAMAN module, etc. These may be quoted as additional accessories for possible future updates.

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