

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

FORMAT OF TENDER

NIT No.: IACS-P/CAMSA/2022-23/61

Date: 20.01.2023

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for **Fourier-transform infrared spectroscopy (FTIR) instrument” along with accessories.**

Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions. Part-II (Price Bid) should clearly indicate category-wise price, if needed, as mentioned in the technical bid. The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Completed tender bids should reach the office of **School of Applied & Interdisciplinary Sciences, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on or before the scheduled date and time specified below:

Tender Notice No.	NIT No. : IACS-P/CAMSA/2022-23/61 Date: 20.01.2023
Last date and time of submitting tender	06.02.2023
Date, time and venue of Pre-bid meeting to discuss technical specification	31.01.2023 at 03.00 PM (In the office of PI)
Date, time and venue of opening technical bid of the tender	07.02.2023 at 03.00 PM (In the office of PI)
Date, time and venue of opening the price bid of the tender	To be notified to the shortlisted vendors
Contact	Email: camsa2@iacs.res.in Tel: 033 24734971 Extn. 1104

The technical bids will be opened first to judge/evaluate the technical specifications of the said instrument and thereafter the price bids of only technically qualified bidders will be opened.

Technical Bid Evaluation: The Technical Bids will be evaluated in the presence of the representatives of intending bidders who will be able to clarify technical aspects of their bids, if any, required by the Technical Evaluation Team.

Opening of price-bid: The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or reimburse any expenses to any of the bidders for attending opening of technical/price bid.

1. TECHNICAL BID

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly super scribed as 'TECHNICAL BID' on the outer cover of the envelop as already detailed above. It should be clearly mentioned on the envelope as "Technical Specification for Fourier-transform infrared spectroscopy (FTIR) instrument along with accessories".

Technical Specification for Fourier-transform infrared spectroscopy (FTIR) instrument

Features	Specification	Compliance
Primary Requirement	Fully PC controlled with USB/Ethernet based interface and Software based FTIR spectrophotometer having compact size, easy to hand carry, utilizing minimum bench space and minimal power requirement.	
Interferometer	Should be permanently aligned with 10 years warranty.	
Spectral Range	5500-500 cm^{-1} or better	
Detector	Should be Temperature-controlled, high sensitivity DLATGS/ TEC DTGS detector	
Beam Splitter	ZnSe Beam Splitter. The beam splitters should be moisture resistant and capable of working in high humidity area.	
Spectral Resolution	1 cm^{-1} or better freely adjustable	
Source	High Intensity IR source with 5years warranty	
Signal to Noise Ratio	55,000:1 or better Peak to Peak for 1 minute or better	
Laser	Solid-state laser with 10 years warranty	
Wave number Precision	0.001 cm^{-1} at 2000 cm^{-1} or better	
Wave number accuracy	0.05 cm^{-1} at 2000 cm^{-1} or better	
Optics	Should be sealed and desiccated with Diamond turned or Gold coated mirrors.	
Window	Humidity resistant ZnSe Window	
Software	Software for data measurement, manipulation, and evaluation with a step-by-step assistance. Should include a starter library and include possibility to create user own libraries	
Certification	System should be supplied with Standard reference material Polystyrene (Traceable to NIST SRM1921b) with certificate	
Accessories	1. Transmission Unit 2. Universal ATR with pure monolithic Diamond Crystal	

	(non-glued) having 10 years warranty for direct analysis of solid, liquid, paste, and powder and gel samples without sample preparation. - Diffuse reflectance accessory having Gold coated optics for high light throughput, Measurement spot: Ø 2mm, having Two sample cups and alignment mirror, Two-position slider mechanism for easy loading and measuring of the granular samples - Movable facility: Carrying Case from principal manufacturer for easy transportation of the system along with ATR.	
Additional Key Features	- Instrument must have minimum 02 years standard warranty. Special 10 years warranty for Laser and Interferometer should be included in offer. - System should not require inert gas purging. - At the time of installation, a detailed operation and maintenance training must be carried out to the users at free of cost by the supplier. - Accessory recognition should have continuous monitoring of spectrophotometer components like source, laser, detector, interferometer, sampling modules must be automatically identified, and spectral test routines must automatically start to verify accessory Performance. Should have automated OQ/PQ test facility with Internal Validation Unit. - System quoted must have been supplied in reputed Universities and Government Institutions and performance statements of the same must be provided. - Instrument should be ISO and CE/EU certified Instrument should be cGMP, GLP and 21 CFR compliant.	
Additional Supply (Local Installation pre-requisites)	15-ton Hydraulic Press, KBr Powder, KBr Die Set, Mortar Pestle Pellet Holder - Branded Laptop (i5 or better/8GB RAM/ Original Windows/ MS office) - Laser Jet B/W printer	
Delivery of Instrument at IACS, Kolkata, WB	Supplier's responsibility would be to arrange customs clearance and Transportation up to designated Lab in IACS, WB. All necessary documentation would be provided by IACS, WB, and it would be responsibility of supplier to inform about the documents required and collect the same to avoid any delay in clearance. Prices quoted should be FOR IACS Kolkata.	

Warranty: 2 years.

Service Facility: Supplier should mention the details of their service setup and man powers in India, preferably Kolkata.

Technical compliance chart should be provided following format,

Tender will not be accepted if the technical compliance chart is not provided following the above format.

2. PRICE BID

The financial bid indicating (item-wise, if required) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly superscribed as 'PRICE BID' on the outer cover of the envelop as already detailed above. Price bids of only technically qualified bidders will be opened and the corresponding manufacturer/exclusive distributor/vendors will be intimated the date and time of the opening of price bid at their e-mail ids. Rest of the bidders will stand rejected.

3. BID SECURITY:

- a. An Account payee Demand Draft/Pay Order for Rs. 75000.00 (seventy five thousand only) drawn in favor of "Indian Association for the Cultivation of Science (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN0000093, MICR Code: 700002048)" is to be furnished by the bidders except those who are registered with the Central Purchase Organizations, National Small Industries Corporation or the concerned Ministry or Department. Bid Security money or Earnest Money Deposit (EMD) may also be deposited in Bank Guarantee or any other acceptable form.
- b. The Demand Draft for the Bid-Security should have at least 90 (ninety) days validity period from the date of opening of the bids.
- c. 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 installation. Bid security money or EMD will be refunded to successful bidder on receipt of the Performance security money.

GENERAL INSTRUCTIONS

1. Validity of tender: Tender submitted should remain valid for at least six months from the date of opening the tender. Validity beyond six months from the date of opening of the tender shall be lapsed by mutual consent.

2. The tender should accompany a compliance chart.
3. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
4. 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. Prospective bidders are advised to occasionally visit the website (www.iacs.res.in/tender) for any amendment.
5. 100% payment after delivery or 90% after delivery in case of LC.
6. Installation/Demonstration/Application training at site: Installation & user training at IACS, free of cost by the supplier.
7. Service facility: In India, preferably Kolkata, supplier should mention their details of service setup and man powers who are responsible for after sales support. Response time should be within 24 hrs.
8. The model number, make and a printed literature of the product should be submitted positively.
9. Proposed delivery schedule should be mentioned clearly. Delivery/installation of the materials to the PI should be within 90 days from the date of purchase order.
10. Manufacturers / exclusive distributors / vendors should have history of supplying this type of instruments to this or other scientific organizations. Availability of a list in this regard would be preferred.
11. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly.
12. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
13. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of the technical bids will be the following working day at the appointed time.
14. In case of any dispute, the decision of IACS authority shall be final and bidding on the bidders.
15. For any clarification regarding technical specifications, information etc., please send your queries to Professor Somabrata Acharya(camsa2@iacs.res.in).
16. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Registrar