



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
JADAVPUR, KOLKATA – 700 032

FORMAT OF TENDER

NIT No.: IACS-G/CSSSD/2025-26/55

Date: 23.01.2026

Sealed tender in two bids system (technical bid and price bid) is invited from Bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for **Closed-Cycle Optical Cryostat as an accessory to Confocal Raman Spectrometer**.

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 group-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 **Central Scientific Services, 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-G/CSSSD/2025-26/55 Date: 23.01.2026
Last date and time of submitting tender	14.02.2026, 3:00 PM
Date, time and venue of Pre-bid meeting to discuss technical specification	03.02.2026, 3:00 - 4:00 PM, Hybrid mode (Sadhan Basu Hall, IACS & Google Meet: https://calendar.app.google/CjmV8pcXFZXEQRff6)
Date, time and venue of opening technical bid of the tender	23.02.2026, 3:00 PM, Sadhan Basu Hall, IACS.
Date, time and venue of opening the price bid of the tender	Will be informed later.
Contact	Email: sspsdd@iacs.res.in Tel: +91 33 2473 4971 (Ext: 2141)

*If you wish to participate in the online Pre-bid meeting, please write a mail to the email account (@iacs.res.in) on behalf of your company so that the required link can be sent prior to the online meeting.

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 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 Closed-Cycle Optical Cryostat as an accessory to Confocal Raman Spectrometer".

Technical Specification for Closed-Cycle Optical Cryostat as an accessory to Confocal Raman Spectrometer

Features	Specification
General Specifications of Closed-Cycle Optical Cryostat for Confocal Raman Spectroscopy	○ System must be Water cooled. ○ There should not be any need for He gas/Liquid requirement to run the system. ○ Cool down time from room temperature to 4.2 K at platform must be less than 200 minutes. Vendor should specify the corresponding value. ○ Cryostat should have integrated temperature Controller for Fully automated and optimized temperature control operations. ○ The system should include calibrated thermometers to measure platform and sample holder temperatures. ○ The cooling power at 4.2K should be ≥ 125 mW ○ The system should have a sample space of ≥ 50 mm (dia) x 40mm (height) ○ Positional flexibility of the cryostat is required so that the user can put it under the microscope or any part of a vibration isolation table, or from one table to another, as needed for different experiments. Cryostat should be mounted on to the optical table without any external stand or support. ○ The Cryostat should not be supported through an external stand and should be placed onto an optical table. ○ A vacuum pumping system including vacuum pump, gauges and plumbing lines should be included and integrated with the system. ○ Input power: As per Indian input power conditions.
Key Performance Specifications	○ Closed-cycle Optical cryostat with a minimum temperature ≤ 3.7 K at the platform. ○ Maximum peak-to-peak temperature variation (at sample) allowed: +/- 20 mK at base temperature with the standard manual sample positioner. ○ Peak-to-peak sample stage vibration (xy) allowed: < 10 nm at base temperature. Provide sufficient supporting information. Vendor must also provide the

	Procedure followed for testing the vibration levels at the factory. ○ Vendors must provide the supporting data for temperature Stability & Vibrations.
Optical part	○ There must be at least 5 optical Windows in Cryostat. ○ Four optical access should be on four sides for optical measurements. ○ One optical access should be from the top of the cryostat. The working distance of less than 5 mm is desired. The top window material should be BK7. ○ The desired overall height of sample chamber is between 135 to 140 mm from optical Table surface. This is to accommodate the sample chamber under the microscope. Vendors should specify this overall height of the sample chamber.
Sample mounting and positioning	○ Sample mount should be designed in such a way that the distance between the sample and window can be varied. This should be possible for sample to move in vertical orientation. ○ Electrical feed through should have at least 20 user pins for DC and 2 lines for RF lines and should include flexible coax lines which can handle up to 20 GHz. All DC and RF lines should be thermally lagged at 30K stage. ○ Sample mount should have at least 12 low-frequency DC connectors along with 2 high frequency RF (coax) connectors on a small circuit board surrounding the sample mounting platform.
Software and automation:	○ The system must have a user interface with embedded control software for fully automated temperature control operations. The system should include a touch screen display and should display the real time system status, temperature, temperature stability, vacuum parameters etc. ○ Software should log system data for quick diagnosis. ○ Vendor must have 15 or more similar/equivalent systems should be installed in India for performance verifications. ○ Vendor must have installed at least 6 Cryostats in India for Micro-Raman Spectroscopy. ○ Warranty: System and its accessories should have onsite warranty for minimum of One year from the date of installation.
Important NOTE	○ Compliance Statement: Vendors should provide a tabular column indicating whether the equipment quoted meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures or measured/published data. ○ Reference: Names of Institutes with contact person and telephone/ email where similar equipment supplied by you in India shall be mentioned in the bid.

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,

Sr. No	Tender specification	Your offered instrument specification	Extent of compliance

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.

PRICE: Price to be quoted in **USD/Euro/GBP**, on a CIP basis up to Kolkata Airport (CCU).

3. BID SECURITY: Declaration in terms of F.9/4/2020-PPD dated 12.11.2020

- a. An Account payee Demand Draft/Pay Order for Rs. 5,00,000 (Rupees Five Lakhs 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 3% 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 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 by LC with 90% against submission of shipping documents and balance 10% after installation.
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 1 week.
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 of the materials to the PI should be within 60 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 Dr. Subhadeep Datta (sspsdd@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.

17. The OEM should have a service center of its own in East for more than 5-10 Years.

Registrar