

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

FORMAT OF TENDER

NIT No.: IACS-P/SAISSG/2025-26/27

Date: 16.09.2025

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for **one Differential Scanning Calorimetry (DSC) system.**

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 **School of Applied and Interdisciplinary Sciences (SAIS), 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/SAISSG/2025-26/27 Date: 16.09.2025
Last date and time of submitting tender	13.10.2025, 5.00 PM
Date, time and venue of Pre-bid meeting to discuss technical specification	07.10.2025 04.00 PM IACS
Date, time and venue of opening technical bid of the tender	14.10.2025, 4.00 PM
Date, time and venue of opening the price bid of the tender	Will be informed later
Contact: Professor Suhrit Ghosh	Email: psusg2@iacs.res.in Tel: 033-24735904 (Extension: 1563)

*If you wish to participate in the online Pre-bid meeting, please write a mail to the email account (psusg2@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 " Differential Scanning Calorimetry (DSC) system ".

Technical Specification for Differential Scanning Calorimetry (DSC) system.

- Modular design with interchangeable furnaces – DSC system can easily be reconfigured to a TGA / STA model.
- Robust and compact furnace that should give improved temperature control and precise measurements.
- Calibrations and corrections must be stored on measuring cell PCB.
- Compact system with smallest footprint – lower footprint preferred.
- Includes mass flow controller - an integrated mass flow controller for monitoring and controlling purge flow rates must be included as standard.
- Intuitive Touchscreen - Touch interface simplifies instrument operation, significantly enhancing productivity.
- Includes Software suite which is easy to use and feature rich for maximum application flexibility.
- The furnace must be made of a material which is corrosion resistant.
- The temperature range needs to cover the window of -70 to 750 °C.
- Must have Controlled Heating Rate of 0.1 to 100 °C/min & Controlled Cooling Rate of 0.1 to 100 °C/min.
- Temperature precision needs to be < 0.02% and Accuracy should be +/- 0.05 °C.
- Should have minimum 10 Data Points/Sec.
- Calorimetric Accuracy +/- 0.2%.
- Calorimetric Precision < 0.2%.
- Should have Dynamic Range +/- 175 mW.
- Should have Indium Response Ratio >19 mW/°C (Indium melting peak height/peak width. No mathematical correction for thermal resistance applied).

- Should have Indium Melting Time 3.3 seconds (Time from the onset of the melting peak to the peak maximum).
- Should be able to use Purge gas like Nitrogen, Helium (Inert) Compressed Air, Oxygen (Oxidative) Argon (Inert).
- Comprehensive accessory kit to be included as standard.
- Universal Crimper Press, Aluminum Sample Pans (at least > 1000) for Solid and Liquid samples.
- The system should be offered with Intracooler for sub-ambient operation from -70°C or less.

Accessories: Suitable PC, UPS and N2 Gas Cylinder with Double Stage Regulator, high vacuum pump (for drying polymer samples) and any other essential accessories to be quoted.

Warranty: 3 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,

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 on INR (The Indian Rupee).

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. 30000.00 (Thirty 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 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 to 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 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 Professor Suhrit Ghosh (psusg2@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