

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

NIT No.: IACS/CSS/RRP/21-22/107

Date: 28/12/2021

Sealed tender in two bids system (**Technical Bid & Financial bid**) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for supply and installation of **Benchtop Shaker Incubator (with temperature control)** with necessary 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 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 the **Registrar, 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/CSS/RRP/21-22/107 Date: 28-12-2021
Last date and time of submitting tender	21.01.2022 (2.00 PM)
Pre-bid meeting (online mode) to discuss technical specification and detail presentation by the representative(s) of the interested companies on the technical specifications of their instrument and application with representative data acquired in their instrument elsewhere.	07.01.2022 @3.30 PM through online mode (Interested bidders need to send participation request before 06/01/2022 to ritesh.pal@iacs.res.in ; Meeting link will be sent upon receiving the request)
Date and time of opening tender (Technical Bids)	21.01.2022, at 3.30 PM
Place of opening tender	IACS Meeting Room
Date and time of 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.
Contact	Email: ritesh.pal@iacs.res.in Tel.+91 33 2473 4971 [Ext 2202]

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.

Quotations received incomplete or beyond the stipulated time will be summarily rejected.

Bidders should submit their past experience for supplying and successful installation of similar units to other research Institutes/Universities/other organizations in India and abroad. Please provide documentary proofs of such successful installation and supportive documents that the instruments are running successfully.

For evaluation of L1 (least price) amongst the technically qualified bid only, the price of optional item will be considered in the event the committee decides to procure it. If the committee decides not to procure the optional items, then the cost of those optional items will not be included in evaluation of L1.

1. TECHNICAL BID

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly superscribed 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 Benchtop Shaker Incubator (with temperature control)".**

Desired Specification for Benchtop Shaker Incubator (with temperature control):

1	Technical Specification
	1a. Speed Range (RPM): 15 – 500 ± 1rpm 1b. Orbit Diameter in. (cm): 0.75(1.9) 1c. Max. Load Lb / Kg: 50 / 22.7 1d. Temperature Range & Accuracy: 15°C below ambient to 60°C; ± 0.1°C at 37°C in Flask 1e. Volt: 240, 50/60 Hz. 1f. Required Amps: 201a. 1g. Spacious chamber holds at least four 2800 ml Fernbach flasks, Six 2000 ml flask. 1h. Large viewing window and internal light offering sample visibility. 1i. Electrical outlet inside chamber to provide power for safe operation of shakers, stirrers or rotators. 1j. Corrosion-resistant stainless-steel chamber.
2	Operation
	2a. Triple eccentric drive that handles heavy loads, provides uniform agitation and continuous 24-hour operation, even at high speeds. 2b. Monitor and control chamber temperature range with ±0.1°C accuracy at 37°C in Flask.
3	Digital Operating Systems
	3a. Variable speed control from 15 to 500 rpm. 3b. Continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes. 3c. View speed, operating time and temperature simultaneously on three individual LED displays. 3d. Visual/audible alarms to alert if temperature deviates ±1°C of set point. 3e. Shaker shuts down and visual/audible alarms signal if unit operates ±10% of set speed, preventing shaker from walking. 3f. User-adjustable speed calibration can be performed using a digital handheld tachometer, where verification is required and protocols can be standardized. 3g. Unbalanced load sensor to stop platform motion when excess vibration is detected and visual/audible alarms signal until condition is corrected. 3h. Soft start feature to eliminate sudden starts and stops, splashing of vessel contents or wetting of flask closure. 3i. Incubator should retain parameters during power failure and restart unit automatically after power is restored.

4	Safety
	4a. Over-temperature safety feature with independent thermostat to provide additional backup by controlling heat if main temperature controller fails. 4b. Safety interlock to stop shaking motion when the door is open. 4c. Should be CE markedfor health, safety, and environmental protection standards.
5	ACCESSORIES
	5a. Vendor needs to supply Universal 18"x18" Platform at least to accommodate different capacity flask. 5b. Clamps to be quoted: Flask Clamp Starter Kit, including (1) microplate clamp, (2) 125 ml flask clamps, (4) 250 ml flask clamps, (4) 500 ml flask clamps, (2) 1L flaskclamps, (2) 2L flask clamps
6	Warranty
	6a. Five-year comprehensive warranty to be offered. 6b. Should have service center at Kolkata.

- **All essential consumables required for sample preparation during training and demonstration need to be provided.**

*Installation and Application Training by factory trained personnel.

*Any other equipment/device/tools whichever are necessary for installation and operation of the complete System.

*Tender will not be accepted if the technical compliance chart is not provided following the given format below:

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

Important notes:

- Vendor should quote rates involved, if any, for the Optional Items/services mentioned separately.
- Bidder providing misleading or wrong information will be disqualified
- All technical claims of the Bidder should be supported by product catalogue, public website of the manufacture.
- Qualified vendor will be required to undertake the room refurbishment for proper installation of the system. IACS will provide the space with electrical connection. The vender will be required to install the necessary tables and other furniture as required by the instruments.
- The above-mentioned technical specifications are highly desirable. However, the Institute reserves the right to go for customized specifications taking into considerations its financial constraints and technical preferences.

2. PRICE/ FINANCIAL BID

The financial bid indicating (item-wise) 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 envelop as already detailed above. Price bids of only technically qualified bidders will be opened and they 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:

a. An Account payee Demand Draft/Pay Order of Nationalized Indian Bank for Rs. 20,000 (Rupees Twenty thousand only) drawn in favour of “Indian Association for the Cultivation of Science (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN000093, MICR Code: 700002048)” is to be furnished by the bidders along with Technical Bid except those who are registered with the Central Purchase Organizations, National Small Industries Corporation or the concerned Ministry or Department, as Bid Security money or Earnest Money Deposit (EMD). Alternatively, the Bidder shall have the option to furnish the EMD in the format of Bank Guarantee (BG) of any Indian Nationalized Bank preferably located at Kolkata.

b. The Demand Draft for the Bid-Security should have at least about 90 (ninety) days validity period 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 on any nationalized bank of India or Bank Guarantee (BG) of any Indian Nationalized Bank preferably located at Kolkata 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 or EMD will be refunded to successful bidder on receipt of the Performance security money.

5. TERMS OF PAYMENT:

Payment will be made through irrevocable Letter of Credit in two installments. 90% of the money will be released on submission of shipping of documents. Remaining 10% will be released after successful installation of the instrument.

6. 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. Installation/Demonstration/Application training at site: Installation & user training at IACS, free of cost by the supplier.

6. 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.
7. The model number, make and a printed literature of the product should be submitted positively.
8. Proposed delivery schedule should be mentioned clearly.
9. 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.
10. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly.
11. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
12. 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.
13. In case of any dispute, the decision of IACS authority shall be final and bidding on the bidders.
14. For any clarification regarding technical specifications, information etc., please send your queries to ritesh.pal@iacs.res.in
15. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Acting Registrar