



INDRAPRASTHA INSTITUTE *of*  
INFORMATION TECHNOLOGY  
DELHI

**TENDER FOR SUPPLY & INSTALLATION OF ISOTHERMAL CALORIMETER (ITC) FOR  
PERMANENT CAMPUS OF THE INSTITUTE AT OKHLA PHASE-III, NEW DELHI-110020**

(Tender no. IIITD/CB/ ITC /007/2023-24)

## INVITATION FOR BIDS

Indraprastha Institute of Information Technology -Delhi (IIITD), a State University created by an Act of Govt. of NCT of Delhi, invites sealed bids for Anaerobic Incubator (as per specifications mentioned under Scope of Work below) for its campus at Okhla Phase-III New Delhi-110020.

1. An amount of ₹ 1,00,000/- (₹ One Lakh only) towards earnest money (EMD) must be deposited in the form of demand draft in favor of “IIIT-Delhi Collections” account, payable at New Delhi. No interest will be paid on the earnest money deposited by the bidder. Tender Document without earnest money will be summarily rejected. EMD is exempted for MSMEs/NSIC registered suppliers
2. The tender document can be downloaded from the Institute’s website, may please deposit non-refundable Tender Document Fee of Rs.1,000/-+GST extra i.e.(Rs. 1,180/-) (Rupees One Thousand one Hundred Eighty only) in the form of Demand draft drawn in favour of IIIT-Delhi Collections”, payable at New Delhi or may deposit Rs.1,180/-with the F&A division of the Institute and enclose the receipt with the filled up tender document.
3. The last date for submission of bid is 16<sup>th</sup> October, 2023 up to 3:00 PM. The Technical bids shall be opened on the same day i.e. 16<sup>th</sup> October, 2023 up to 3.30PM..The Tender Document should be addressed to:

**Registrar,  
Indraprastha Institute of Information Technology-Delhi  
Okhla Phase-III  
(Behind Govind Puri Metro Station)  
New Delhi-110020.**

The document may be deposited in the Tender Box kept in the Store & Purchase department at the A Wing Room no. 107, First Floor, Store & Purchase Deptt. Old Academic Block of the Institute. Bids received after 3:00 PM will not be accepted or considered under any circumstances.

### **Bidding Procedure:**

1. Bids are invited in Two Bids System i.e. (1) Technical and (2) Financial.  
Technical and Financial bids should be sealed separately and enclosed in a sealed envelope clearly indicating separately Technical Bid for “Isothermal Titration Calorimeter (ITC)” and Financial Bid for “Isothermal Titration Calorimeter (ITC)” addressed to Registrar IIIT-Delhi, Okhla Industrial Area Phase-III, New Delhi-110020.
2. Sealed quotations shall be received not later than 3.00 P.M. on 16<sup>th</sup>, October, 2023. No bids will be accepted after this date & time under any circumstances. The Institute will not be responsible for any postal/courier delay and also for reasons beyond control of the Institute.
3. Technical bids must contain the EMD for specified amount, along with complete technical details as desired by this tender. Technical bids of all the bidders will be opened on pre scheduled date, time & venue. Technical bids without EMD will be summarily rejected. The financial bid will be opened after evaluation of the technical bid. Financial bid of only those meeting the requirement of the Institute will be opened and no representation in this regard will be entertained. The date, time of opening of financial bid will be communicated later.

## Scope of Work

### Technical Specifications for Isothermal Titration Calorimeter (ITC)– 1 Qty.

- The system must be equipped with control unit, wash module, auto-pipetting syringe with tower filling and assemblies, injection syringes and other start up accessories, necessary software for instrument control, operation, data analysis, viewing and enabling printing enabling accurate determination of thermodynamic parameters such as binding constants, reaction stoichiometry, enthalpy, entropy etc. with following applications and detailed specifications.
- **Applications:** Characterization of molecular interactions of small molecules and polymers with proteins, antibodies, nucleic acids, lipids and other biomolecules, Lead optimization, Assessment of the effect of molecular structure on binding, Enzyme kinetics, Assessment of biological activity etc. Determination of thermodynamic characteristics of interactions between any two molecules/ions/macromolecules in terms of binding parameters like  $K_d$ - Binding affinity in range of millimolar to nano-molar,  $n$ - Number of binding sites, Multiple and different binding sites,  $\Delta H$ - Enthalpy and  $\Delta S$ - Entropy of binding.
- **Measuring principle:** Direct measurement of heat released or absorbed during a binding event with the heat compensation, detection via power feedback.
- **Cell configuration:** Coin-shaped non-capillary cells which provide large and symmetric surface area that maximizes cell contact with attached peltier elements so as to provide faster equilibration, faster response time, and better sensitivity.
- **Cell type:** Fixed cell with reaction volume of  $\sim 200 \mu\text{L}$  (less is preferred) and a maximum sample loading volume, not exceeding  $\sim \pm 20 \%$  of reaction volume ( $280 \mu\text{L}$ ) in non-automated mode. Cells must be enclosed in an adiabatic chamber, with  $\sim 200 \mu\text{L}$  cell volume.
- **Cell Material:** Should be made with Hastelloy - nickel-molybdenum-chromium superalloy with an addition of tungsten which should be inert and should not react with non-metal and metal ions such as carboxylates, phosphate ions, silver, gold, and magnesium etc and also should not react with thiol compounds. Further, the material should not adsorb biomolecules such as oligomeric and aggregated proteins, large nucleic acids etc. Cell material should also be highly resistance to extreme pH (2-12) conditions, organic solvents, resistant to acid, base, and detergent based cleaning materials.

- **Samples:** In solution state including turbid samples. Detectable heat range: ~ 50 ncal to ~ 10.0  $\mu$ cal
- **Injection syringe capacity:**  $\leq 40\mu\text{L}$
- **Equilibration time:**  $\leq 6$  min (lesser will be preferred) between 25°C to 5°C
- **Sample concentration range:** Micromolar to Picomolar range, which can be helpful in saving the sample expenditure.
- **User selectable Feedback Mode:** Multiple feedback mode option should be available to cover boarder range of binding reactions.
- **Sensitivity:** Base line noise level measured (RMS average) at LESS THAN 0.15 nano calories/s.
- **Response time:** The system should be capable to provide user selectable response times with a minimum response time  $\sim \leq 8$  seconds.
- **Mixing or stirring speed:** The system should have multiple mixing speed options (rotations per minutes, rpm) with maximum stirring speed upto 1500 rpm.
- **Operating temperature range:** Should be able to operate in the range 2°C to 80°C with temperature stability  $\sim \pm 0.00012^\circ\text{C}$  at 25°C.
- **Equilibration option:** Fast equilibration and auto injection options should be available.
- **Binding constants detectable range:** Should be able to detect interactions with binding constants in the range of sub- millimolar ( $10^2 \text{ M}^{-1}$ ) to pico-molar range  $10^{12} \text{ M}^{-1}$ .
- **Pipette assembly:** Automated and controlled by instrument control software to minimize sample loss or introduction of air bubbles encountered during manual filling.
- **Temperature control system:** Peltier controlled system.

- **Injection syringe and wash module:** Purging options to remove air bubbles during loading on to injection syringe and compatible with cleaning accessories. Washing and cleaning of cell and syringe should be automated. The injection volume precision is  $<1\%$  @  $2.0\ \mu\text{L}$ .
- **Service and Maintenance:** (a) There should be at least one service engineer and one application scientist based in India trained on the same quoted instrument. (b) Instrument should have a guarantee of at least one year and should have frequent visits from both service engineer and application scientist. (c) An user's list should be provided highlighting instalment of similar equipment in other research institutes in India in the recent past. (d) A good record in supply and service to other research institutes will be considered as a positive point for a particular company.
- **Software:** Should be capable of running instrument, injector control, sample loading the injector, providing user- selectable binding models, and data merging like: single site, two site, sequential site, competitive site, and enzyme kinetics. Non-linear least square analysis of the data should include calculations to correct for the excluded concentrations of the macromolecules and ligands during each injection. It should be easy to export and use data in other formats. In addition to this, the software should have significant property to generate high resolution images, which are ready to publish data like, Scatter plot, Statistical plot, Signature plot (Describes about Stoichiometry, Thermodynamic properties of Gibbs free energy, enthalpy and entropy respectively).
- **Computer:** a. Computer (with screen, keyboard and mouse) and necessary software for operation, data collection and analysis, viewing should be provided. b. Analysis software: should provide copies of offline analysis software and should not require a separate software supporting license.
- **Necessary Accessories:** All necessary accessories should be supplied with the instrument, as per standard package offered, including user manuals. Bottle kits, Bottling tubing-external, Filling port adapter with needle, syringe, wash module, drip tube, cleaning device and O-ring.
- **AMC (Maintenance):** **2 years full AMC should come included with the quote.** Additional warranty of 3 years to be also quoted separately.

## **Minimum Eligibility Requirement:**

- 1 Bidder should be OEM/Authorized Partner/service provider of the OEM. In case the bidder is an Authorized Partner or Service Provider a valid Agency-ship/Dealership Certificate (**MAF** specific to this tender) to quote on behalf of OEM should also be enclosed along with the technical bid. **A document in support of this must be enclosed. Bidder should also need to submit Technical Compliance on OEM Letterhead with signed and stamp with the Technical Bid.**
- 2 OEM/bidders should have Sales and support office in Country. **A self-certified document in support of this must be enclosed.**
- 3 OEM/bidder should have service and support office in Delhi NCR. **A self-certified document in support of this must be enclosed.**
- 4 The warranty provided by the bidder should have a back to back arrangement with the OEM. **The declaration should be the part of a Letter of Authorization and signed by competent authority at the OEM.**
- 5 The bidder should be ISO 9001 or better certified. **A copy of ISO Certificate should be enclosed.**
- 6 The bidder should have support centre with minimum 3 relevant support/network engineers. **A self-certified document in support of this must be enclosed.**
- 7 The vendor/OEM should be able to provide 24x7 NOC & Tele support of their own if required by IIITD at agreed terms. **A self-certified document in support of this must be enclosed.**
- 8 The bidder shall provide the Registration number of the firm along with the valid GST number with PAN Number allotted by the competent authorities. **A self-certified document in support of this must be enclosed.**
- 9 The bidder must not be blacklisted by Central Government, State Government or Government of Corporations in India. **A certificate or undertaking to this effect must be submitted.**
- 10 If the bidder is an authorized partner or service provider of an OEM, **an undertaking from the OEM is required** (please enclose) stating that they would facilitate the bidder on a regular basis with technology/product updates and extends support for the warranty as well.
- 11 The bidder must be responsible for supply, deploy and support the infrastructure.
- 12 If vendor /OEM do not meet its SLA, IIITD put the fine of 2000/- Rs per day for first seven days and @ Rs.5, 000/- per day from 8<sup>th</sup> day onwards will be levied.
- 13 Bidders can seek clarifications, raise technical queries etc. related to tender by 27-09-2023 via email to **nilesh@iiitd.ac.in & ajay@iiitd.ac.in**. The replay to clarifications sought or queries raised will be replied within 6-7 days by 04-10-2023 and uploaded on the website of the institute under [www.iiitd.ac.in](http://www.iiitd.ac.in) Based on this the bidders may submit bids as prescribed by the due date the time. No clarifications in any other form will be provided.
14. The bidder/tenderer shall submit an undertaking on its letter head, duly signed and stamped, that none of the staff, faculty members, relatives, etc. of the Indraprastha Institute of Information Technology-Delhi are related directly or indirectly to any employees, Directors, or Key Managerial Personnel, etc. of the bidder/tenderer. In the event of the IIIT-D coming to know or pointed about the same, the bidder/tenderer undertakes to deposit a sum of Rs.1,00,000/- (Rs. One Lakh only) as a penalty with the Institute. Such bidders/tenderers shall be liable to be blacklisted and announced on the website of IIIT-D.

**Following information must accompany the financial bid:**

1	Name, address and telephone number of the firm/company	
2	Name of the contact person and contact details (mobile/telephone number etc.)	
3	Name of the Bank and full address	
4	Bank Account Number	
5	PAN & GSTIN (Attach self-certified copy)	
6	Copy of Partnership Deed/ Certificate of registration of company or any other document evidencing registration of the bidder	
7	Number of Years of Experience	
8	Details of DD towards: Tender Fee: EMD:	
9	Provide the previous PO's of the similar items work executed during last three years (attested copies of the Orders to be enclosed)	
10	List of service canters, nearest location of support centre.	
11	Turnover of the bidder in the financial years: 2020-21 2021-22 2022-23 Please attach CA certified copy of the turnover.	

I /We hereby certify that the information furnished above is full and correct to the best of my/our knowledge.

(Signature of the authorized Signatory)  
Name:  
Office Seal.

Date:  
Place:

## TERMS AND CONDITIONS

1. The financial bid should be valid for a period of not less than 60 days from the date of opening of bid.
2. Upon placing of the Purchase Order (PO), the successful bidder is required to submit performance Bank guarantee (PBG) equivalent to 3% of the PO value within 15 days of the date of PO, failing which the EMD amount will be forfeited and the bidder shall be notified as blacklisted. The PBG shall be valid for a period of 60 months from date of purchase order. No interest is payable on the PBG.
3. The product to be supplied within a period of 8-10 weeks from the date of the Purchase Order by the Institute.
4. The bidder should have their own test and repair facility with certified engineers.
5. PBG will be realized by IIIT-D in case of termination of the contract for unsatisfactory performance and/or non-performance of the contract.
6. Bids will be opened in the presence of bidder's representatives, who choose to attend on the specified date and time. Only one representative shall be allowed to attend.
7. Sealed bid can be sent either by post or by messenger. The responsibility of delivery of bid lies entirely with the bidder.
8. The quotes must be CIP IIIT Delhi, India. So, please include cost of shipping, insurance and other cost.
9. IIIT Delhi reserves the right to choose the L1 based on the price quoted based on the technical compliance and funds available.
10. 100% payment will be released only on satisfactory installation as per scope of work as certified by officer in charge of the Institute and after producing the GST invoice. Bidder does not agree to above payment terms are requested not to submit their bid.
11. Payment will be paid only if required SLA as mentioned in scope of work is met.
12. If the goods are found to be defective, they have to be replaced / rectified at the cost of the supplier within 15 days from the date of receipt of written communication from us. If there is any delay in replacement / rectification, the warranty period should be correspondingly extended.
13. In the event of dispute, Director, IIIT-Delhi shall be the sole arbitrator and his decision shall be final and binding on both the parties.
14. IIIT-Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
15. In case the bidder is not able to execute the Work as per terms, EMD/PBG shall be forfeited.
16. The bidder must be an ISO-9000 certified organization.
17. The bidder should be Original Equipment Manufacturer (OEM) or authorized service provider of the OEM (attach documentary proof). The authorization issued by the OEM must be valid and enclosed.



- 16 Bidder must submit an attested copy of every page of the tender
- 17 Bidder should provide details of its support, certification to this effect from the OEM. If vendor /OEM fails to meet the SLAs, a fine of 2000/- Rs per day for first seven days and @ Rs.5,000/- per day from 8th day onwards will be levied.
- 18 The selected bidder has to sign an agreement with IIITD on a stamp paper after issue of Purchase/Work order. The agreement is attached Annexure 'Y'

**PROFORMA FOR FINANCIAL BID**

S. No.	Details	Qty.	*All Inclusive Cost (Inclusive of GST) <b>(Please quote in INR only)*</b>
1	Supply and installation of Isothermal Titration Calorimeter (ITC) <b>2 years full AMC should come included with the quote</b> (As per tender scope of Work)	01	
2	Additional Warranty for 3 Years		
3	Discount, if any		
	Total Amount ₹. (all Inclusive of GST)		
	<p align="center">Total Final Cost (in figures) with Installation at IIIT Delhi campus Okhla Phase III, New Delhi.</p> <p align="center"><b>The Bidder may obtain price in Forex (USD) however the quote in financial Bid should be INR only.</b></p> <p align="center"><b><i>*If any documents are required for availing custom duty exemption, the IIITD will provide the same. Please quote price accordingly.</i></b></p>		

- Please note the price should be quoted for each of the item should be inclusive of all taxes/charges and installation at IIIT-Delhi Okhla Phase III, New Delhi.

- The Bidder may obtain price in Forex(USD) however the quote in financial Bid should be INR only.

The discount, if any should be mentioned herein and nowhere else.

Total Cost (all inclusive) of quantity mentioned above (in words) at IIIT-Delhi campus:

We accept that the rate quoted above shall remain valid for a period of 60 days from the last date of the tender document i.e. 60 days from 16<sup>th</sup> October, 2023. It is certified that the rates quoted above are not more than the rates charged from any Central / State Govt. Deptt. / Institution / GeM.

(Signature and seal of the Bidder)

**Annexure Y**

**ON NON JUDICIAL STAMP PAPER OF RS 100/-**

AN AGREEMENT made on \_\_\_\_\_ day of \_\_\_\_\_ Two Thousand Twenty-  
Three

BETWEEN

(Hereinafter called the contractor, which expression shall include its proprietor, partners, heirs, executors, administrators, legal representatives, successors and assignees) WITH REGISTERED ADDRESS.....of the one part

AND

The REGISTRAR Indraprastha Institute of Information Technology Delhi, Okhla Industrial Area Phase III, New Delhi - 110020 (hereinafter called the IIIT-DELHI, which expression shall include its successors and assignees) of the other part.

Whereas the IIIT-DELHI had invited Bids <Please write tender name> ; vide its Bid Document No. \_\_\_\_\_, which shall be deemed to be a part of this agreement; FOR THE SCOPE OF WORK/SUPPLY

Whereas the contractor submitted its TENDER Bid dated \_\_\_\_\_, a copy of the price bid, submitted by the contractor, is annexed hereto as Annexure;

Whereas the IIIT-DELHI has accepted the Bid submitted by the contractor, on the terms and conditions mentioned in the IIIT-DELHI's said Bid Document and conveyed its acceptance to the contractor; vide its letter No. \_\_\_\_\_ dated \_\_\_\_\_, AND ANY OTHER CORRESPONDENCE .....which shall be deemed to be a part of this agreement;

Whereas the contractor is agreeable to the terms and conditions mentioned in the IIIT-DELHI's said Bid document;

Whereas the contractor undertakes to comply with all relevant laws like Contract Labour (Regulation and Abolition) Act, 1970; Employees' State Insurance and Miscellaneous Provisions Act, 1952; Employees' State Insurance Act, 1948; Minimum Wages Act, 1948; Payment of Bonus Act, 1972; Payment of Wages Act, 1936; Income Tax Act; GST Act etc. and to indemnify the IIIT-DELHI from the contractor's acts of omission or commission, as regards the compliance with the relevant laws;

Whereas the contractor declares that he/she/it shall own all responsibility for any act of omission or commission, as regards the compliance with the relevant laws;

AND WHEREAS the IIIT-DELHI is agreeable to make necessary payment to the Contractor, at the rates mentioned in the Annexure annexed hereto and as per the terms and conditions mentioned in the IIIT-DELHI's said Bid Document;

In WITNESS whereof Shri (name), (designation), the authorized representative of the contractor, for and on behalf of the contractor, has hereunto set his hand and ..... for and on behalf of the IIIT-DELHI has hereunto set his hand.

(Signature of the authorized representative of the Contractor)  
Name and designation of the contractor's representative

In the presence of  
1

2

(Signature of witnesses with full name and full address)

Registrar  
for and on behalf of the IIIT-DELHI  
In the presence of

1

2

(Signature of witnesses with full name and full address)