

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

NIT No. : IACS/CSS/DKS/M ModeR/21-22/104 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 **multimode reader** 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/DKS/M ModeR/21-22/104) Date: 28-12-2021
Last date and time of submitting tender	20.01.2022 (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.	06.01.2022 @3.30 PM through online mode (Interested bidders need to send participation request before 05/01/2022 to bcdks@iacs.res.in; Meeting link will be sent upon receiving the request) In the subject mention(Pre-bid meeting request for Plate Reader)
Date and time of opening tender (Technical Bids)	21.01.2022, at 3.00 PM
Place of opening tender	Room no 65, IACS Main Building
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: bcdks@iacs.res.in Tel.+91 33 2473 4971 [Ext 1106]

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 multimode reader".** A point wise compliance sheet should be included in the technical bid. A document supporting the compliance of each technical specification must be included too.

Desired Specification for multiwall plate readerwith accessories:

I	Plate reader should be compatible with following application
	1) UV-VIS Absorbance 2) Fluorescence Intensity (Top and Bottom) 3) Luminescence 4) Time Resolved Fluorescence 5) Fluorescence Polarization 6) HTRF 7) Western Blot detection (inbuilt or quoted separately) Demo kit should be provided during installation.
II	Specifications
	a) Light source and detectors 1. System should offer excitation light source as Xenon Flash lamp. 2. System should have PMT for Fluorescence & Luminescence & Silicon Diode for Absorbance. 3. Ultra cooled PMT up to - 5°C for Fluorescence and Luminescence or equivalent cooling technology. b) General requirements 1. Band width for Absorbance - 4.0 nm across complete spectral range 2. System should be quoted with Cuvette-adaptor and a pair of 250 and 100 micro liters fluorescence compatible cuvettes should be provided. 3. System should offer Path Check Sensor or Path length Correction to automatically normalize well absorbance equal to 1cm path-length of a cuvette for spectrophotometric data, independent of temperature.

	4. Well Scanning should be possible for Absorbance, Fluorescence & Luminescence. 5. System should offer programmable linear, orbital, and double orbital microplate shaking methods. 6. System should offer temperature control in the microplate chamber from 5°C above ambient to 65°C. 7. System should offer ability to read 6 to 384 well plates. 8. System should perform Spectral Scanning and Kinetic Reading, End-point reading for Absorbance, Fluorescence, Luminescence, TRF, FP. c) Absorbance photometric performance : 1. Wave length range – 230- 1000 2. Wavelength Selection: Monochromator, tunable in 1.0 nm increments. 3. Dynamic Range: 0-4 Abs d) Fluorescence Performance : 1. Reading Capabilities: Top & bottom of a Microplate 2. Wavelength Range: 250 – 830 nm (EX) & 270-850nm (EM) 3. Wavelength Selection: Monochromator, tunable in 1.0 nm increments. 4. Dynamic range > 6 logs 5. Sensitivity – 1 pM for monochromator optics e) Luminescence Performance : 1. Flexibility to select Glow Luminescence mode 2. Wavelength range: 300 – 850 nm or better 3. Wavelength Selection: Monochromator. 4. Dynamic range > 7 decades f) Time Resolved Fluorescence : 1. Wavelength range : 450-750nm (EM monochromator) 2. Wavelength range : 350nm (EX filter) and 490nm (Terbium), 616nm (Europium) EM filters 3. Sensitivity : 30fM g) Fluorescence Polarization : 1 Wavelength Range : 400-750 nm, 1.0 nm increment (EX & EM monochromator based) 2 Sensitivity : 2mP for monochromator 3 System should be quoted with vertical and horizontal polarized filters. h) HTRF should be quoted with excitation filter 340nm and emission filters: 520nm 616nm 665nm. i) Necessary filter wheel if any should be quoted additional. j) The system should be supplied with latest data analysis software with minimum 3 user licences. k) The system should have preferably built-in near-field communication (NFC) functionality in the reader enabling to pull up custom protocols with a single tap. l) The system should have inbuilt Touch screen to run the protocols. m) System should be future upgradable to include bottom read luminescence, BRET, dual luciferase reporter assays with dual injectors. n) System should be future upgradable to hybrid optics for fluorescence with Excitation and Emission combinations as Monochromator-monochromator, monochromator-filter, filter-
--	---

	monochromator, filter-filter. o) System should be quoted with compatible PC minimum i5 processor, 8GB RAM, 1TB HDD and compatible 1 to 1.5 KVA Online UPS with half an hr back up. p) Warranty – Two Years from the date of installation. q) Additional Warranty of three years should be quoted optionally
--	---

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

➤ **Warranty:**

Entire equipment should be offered with comprehensive warranty including service and spares and local service support for two (2) years compulsorily and additional 3 years (optionally). The vendor should also quote for further 5 years Annual Maintenance Contract (AMC) and Comprehensive Maintenance Contract (CMC) separately after the expiry of initial period of warranty. Taxes as applicable will be deducted at the time of payment of AMC/CMC amount.

➤ **Service:**

Past installation history of the said equipment in India. It is desirable that adequate number of installations by the company have been fulfilled in India and the instruments are in running condition. Notably, the company must have expert service support specifically for the said equipment in India.

*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:

- i) Vendor should quote rates involved, if any, for the Optional Items/services mentioned separately.
- ii) Bidder providing misleading or wrong information will be disqualified
- iii) All technical claims of the Bidder should be supported by product catalogue, public website of the manufacture.
- iv) Qualified vendor will be required to undertake the room refurbishment for proper installation of the system. IACS will provide the space will electrical connection. The vender will be required to install the necessary tables and other furniture as required by the instruments.

v) 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. A Bank Guarantee (BG) /Account payee Demand Draft/Pay Order of Nationalized Indian Bank for Rs. 1,00,000 (Rupees one lakh 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 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 bcdks@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