

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

NIT No. : IACS/CSS/PKD/21-22/118

Date: 24/01/2022

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 **Fluorescence Spectrophotometer with Peltier temperature controller, Microplate Reader and other 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/PKD/21-22/118)	Date: 24-01-2022
Last date and time of submitting tender	17.02.2022 (3.00 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.	03.02.2022 @3.30 PM through online mode (Interested bidders need to send participation request before 02/02/2022 to bcpkd@iacs.res.in ; Meeting link will be uploaded at the IACS website and also will be sent upon receiving the request)	
Date and time of opening tender (Technical Bids)	18.02.2022, at 3.00 PM	
Place of opening tender	Either through online mode or off-line mode at IACS. Information will be updated in this website	
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: bcpkd@iacs.res.in Tel.+91 33 2473 4971 [Ext 1505]	

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 Fluorescence Spectrophotometer with Peltier temperature controller, Microplate Reader and other accessories".**

Desired Specification for Fluorescence Spectrophotometer with Peltier temperature controller, Microplate Reader and other accessories:

1. Fluorescence spectrophotometer Measurement's mode & Applications: Fluorescence, phosphorescence, chemiluminescence, and bioluminescence; Excitation, emission, constant wavelength synchronous, and constant energy synchronous spectral scanning; 3D excitation/emission scans, 3D synchronous and kinetic scans, single or multiple wavelength kinetics, along with, chopper or suitable mechanism should be offered to block the beam when measuring luminescence & phosphorescence.
2. Suitable Xenon Source or equivalent flash/pulse/arc etc.
3. Monochromator: Czerny-Turner/ modified Rowland or equivalent monochromator.
4. Grating Excitation & Emission: 1100 lines/mm or better.
5. Detectors: High performance PMT. The spectrometer should be equipped with a reference photodiode or PMT to monitor excitation lamp intensity fluctuations or reference signals.
6. Spectral bandwidth :1.5 to 20 nm or better (variable and computer controlled slit width i.e., 1.5, 2.5, 5, 10, 20 nm) or better.
7. Wavelength Excitation Emission range: (200 to 900).
8. Wavelength accuracy: ± 0.6 nm.
9. Wavelength Resolution: ± 1.5 nm or better.
10. Wavelength Repeatability: ± 0.5 or better.
11. Typical Signal to noise ratio/Sensitivity : > 3700:1 RMS sensitivity @ 350 nm excitation, excitation, and emission slits 10 nm, 1 s Signal Averaging time (Raman band of water) or better.
12. Resolution :1.5 nm or better.
13. Wavelength scan speed :> 23000nm/min, or better.
14. Software should be User friendly, original licensed Windows based operating software in the form of CD ROM, it should have built in features like have facility for scan application, kinetics, μ s lifetime measurements, concentration.
15. Accessories:
 - I. Fluorescence cuvette 3 mL (02 Nos), 400-650 uL (01 No.)
 - II. Single Cell Peltier Accessories (0-100 Deg C) with Temperature Probe, controlling software and Stirring option.
 - III. Well plate/Microplate reader accessories with 100 Nos plate.
 - IV. Factory configured/recommended PC & Laser B/W printer
 - V. Absorption & transmission measurement Spectrophotometer: Range 190-1100 nm or better, Xenon Lamp or equivalent, suitable detector, 2nm or better resolution, Noise: <0.002 A@ 300nm or 500nm, wavelength repeatability: <0.02nm , Strat Light @ 220nm - <0.05%T, Photometric repeatability (standard deviation ,10 measurement) @ 1A <0.004A, Scan speed : <3-5 sec to cover full range or 22000 nm/min, Single cell Peltier accessories (0-100Deg C) along with controlling software , Suitable PC, original licensed Windows based operating software in the form of CD ROM, 3 mL, 900 uL & 1.4 mL (01 Nos each) Cuvette.
 - VI. Three Year replacement Guarantee on Xenon or equivalent source or one set of sources should be included.

16. Future upgradations requirements: Fiber optics probe & Stop Flow accessories & Cryostat (-40DegC) etc.
17. Technical literature and compliance statement must be enclosed. Compliance statement and published documents must be included. User reference should be provided from reputed Government Institutes or university's (username & official email id) performance verification of equipment with required accessories. EU-CE & ISO certificate must be enclosed as manufacturer along with factory address.

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

➤ **Warranty:**

Entire equipment should be offered with warranty including service and spares for three (3) years and local service support from the date of installation. The vendor should also quote for further 5 years Annual Maintenance Contract (AMC) separately after the expiry of initial period of warranty. Taxes as applicable will be deducted at the time of payment of AMC 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). Prices must be up to FOR including clearance and transportation.

3. BID SECURITY:

- a. An Account payee Demand Draft/Pay Order of Nationalized Indian Bank for Rs. 60,000 (Rupees Sixty 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. OR 100% payment against delivery and 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 bcpkd@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