

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

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

NIT No. : IACS/CSS/SV/121

Date: 25-01-2022

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors for a "Compact fluorescence spectrometer for steady state spectral measurements."

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 **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.	IACS/CSS/SV/121 DT 25-01.22
Last date and time of submitting tender	15-02-2022
Pre-bid meeting to discuss technical specification	31-01-2022 @ 1.30 PM through online mode. Interested bidders need to send the participation request by 30 January 2022 to Shinto.Varghese@iacs.res.in with cc to trcsv@iacs.res.in
Date and time of opening tender (Technical Bids)	15-02-2022, 4.00pm
Place of opening tender	IACS
Date and time of opening of Price Bids	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 Details	Email: Shinto.Varghese@iacs.res.in , trcsv@iacs.res.in

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.

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 "Compact fluorescence spectrometer for steady state spectral measurements."

Technical Specification for Compact fluorescence spectrometer for steady state spectral measurements:

Detailed Specifications	All optics should maintain focus at wavelengths in 200- 900nm range and upgradable to NIR (up to 1500nm or better). Excitation source: 150 W CW Ozone-free xenon arc lamp. Czerny-Turner monochromators at both excitation and emission sides. Excitation Range: 200 - 900nm, optimized in UV range with 1200 lines/mm reflective grating. Emission Range: 200 - 900nm optimized in visible range. Emission Grating: 1200 lines/mm blazed at 500 nm Wavelength accuracy: $\pm 0.5\text{nm}$ Band pass: 0-30nm continuously adjustable from software. Scan Speed 80nm/s or better Integration time: from 1ms Sample holder for solution and solid state. Solid state sample holder with variable angle and preferably linear adjustment for focusing the excitation on the solid state sample 4 Number 10mm cuvettes for ambient temperature fluorescence measurements. Emission Detector: Photomultiplier tube with peltier cooled housing with a spectral range between 200nm – 870nm or better. NIR PMT detector should be possible to integrate to the spectrometer in future. Reference Detector: Calibrated Silicon photodiode with correction files from 200 to 870 nm. Signal to noise ratio: Water Raman Signal $>10,000:1$ or higher. Windows based software for excitation/ emission spectra and kinetic data scan. Correction files for excitation and emission intensities against optics, lamp and PMT response. Appropriate computer and peripherals.
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	Three years of comprehensive manufacturer warranty with 48 hours response time. Online UPS with 30 min backup
Pre installation certificates	These should be attached with the tender documents
Pre-installation requirements	These should be mentioned in advance
Power supply	Compatible with 230±10 volts and 50Hz power supply
Student training	As required at free of cost.
Delivery	Estimated time of delivery and installation to be mentioned.
Optional items to be quoted in the tender document	
Specifications	Integrating sphere to measure PLQY of solid, liquid and powder samples and can be integrated to the sample chamber. Possibility of measuring electroluminescence quantum yield is considered as an added value.
Specifications	Liquid nitrogen dewar assembly for emission spectra at 77k with four fused silica or quartz sample tubes.

Warranty: Three years of comprehensive manufacturer warranty with 48 hours response time.

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 CIF Kolkata and also FOB basis.

3. BID SECURITY:

a. There will not be any bid security /Earnest Money deposit (EMD). Instead, the bidders have to sign a "Bid Security Declaration" accepting that if they withdraw or modify their bids during period of validity etc., they will be suspended for the time specified in the tender documents (90 days).

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 visit the website (www.iacs.res.in/tender) for any amendment.
5. Payments: 100% against delivery and successful installation or 100% Letter of Credit.
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.
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 Dr. Shinto Varghese (email :Shinto.Varghese@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.

Acting Registrar