

Global Tender Notification for the Procurement of Spectrofluorometer

(Last Date for Submission: November 7th, 2024)

Indian Institute of Science, Bangalore invites the best quotations from the bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors for the procurement of a *Spectrofluorometer* with the following technical specifications on C.I.P. Bangalore basis (by **Air Freight** only). The quotation should clearly mention the validity of the quote (minimum 90 days validity), terms of delivery, delivery schedule, estimated delivery date, and payment terms. The tender should be submitted in two separate sealed and distinctly marked envelopes: one containing the technical bid and the other containing the commercial bid, both of which should reach us duly signed on or before 17:00 hours, November 7th, 2024.

As per the OM No.F.4/1/2023-PPD dated 28-06-2024 on Relaxation on Procurement of Certain Items through GTE, Spectrofluorometer (among 354 Medical devices) are exempted from the instructions related to GTE (for details, see OM, Sl. No. 120,151).

The bids should be addressed to:

The Chairman

Materials Research Centre
Indian Institute of Science (IISc)
Bengaluru, India - 560012
Kind attention: **Dr P. Rajamalli**
Email: rajamalli@iisc.ac.in

The sealed bids should be sent to the following address:

Dr. P. Rajamalli

Material Research Centre
Indian Institute of Science (IISc)
Bengaluru, India - 560012
Ph: +91-9932207177
Email: rajamalli@iisc.ac.in

Please enclose a compliance statement along with the technical bid

Section 1: Bid Schedule

1.	Tender No	<i>IISc/MRC/2024/spectrofluorometer</i>
2.	Tender date	10th October 2024
3.	Instrument	Spectrofluorometer
4.	Tender type	Global Tender
5.	Documents to be submitted	i) Technical bid (part A) ii) Commercial bid (part B)
6.	Place of tender submission	Dr. P. Rajamalli Materials Research Centre Indian Institute of Science (IISc) Bengaluru, India – 560012
7.	Last date and time of tender submission	November 7th 2024, 17:00 hours
8.	For Further clarification	Dr. P. Rajamalli Materials Research Centre Indian Institute of Science (IISc) Bengaluru- 560012, India Ph: +91-9932207177 Email: rajamalli@iisc.ac.in

Spectrofluorometer

Section 2 - Eligibility Criteria:

Prequalification criteria:

1. All documentation in the tender should be in English.
2. The tender should be submitted in two envelopes (two bid systems)
 - a) Technical Bid (Part-A) – Technical bid consists of all technical details and a checklist for conformance to technical specifications. The proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ above. The compliance table should include all the items in the same order and format. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of the deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirements table below. (Suppliers who include any indication of prices in the technical bid will be automatically disqualified).
 - b) Commercial Bid (Part-B) – Indicating item-wise price for the items mentioned in the technical bid, as per the format of quotation provided in the tender, and other commercial terms and conditions.
3. The technical bid and price bid should be placed in separate sealed covers, superscripting the tender no. and the due date on both envelopes. Both these sealed covers are to be placed in a bigger cover, which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.

4. The SEALED COVER superscripting tender number / due date & should reach the office of **Dr. P. Rajamalli**, Materials Research Centre, Indian Institute of Science, Bangalore – 560012, India, on or before the due date mentioned in the tender notice. In case the due date happens to be a holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
5. Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:
 - a) To accept OR reject lowest tender or any other tender or all the tenders.
 - b) To accept any tender in full or in part.
 - c) To reject the tender, offer not confirming to the tender terms.
6. The Bidder should sign and submit the declaration of Acceptance of Terms and Conditions as per -Annexure 4.
7. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect must be given as per Annexure 3.
8. List of customers and references: The Bidder should have supplied similar equipment in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISc, IISER, NIT and other). Please provide the details and contact information.
9. Items in addition to that listed in the technical table that you would like to bring to the attention of the committee, such as data sheets, technical plots etc. can be listed at the end of the compliance table.
10. Vendors are encouraged to highlight the advantage of their tools over comparable tools from the competitors.
11. If needed, a meeting for any technical clarifications can be scheduled with the undersigned by sending an email.
12. The Institute reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids, at any time prior to the award of contract without thereby incurring any liability of the affected bidder or bidders
13. Warranty terms and additional warranty options is a must for all the components. Please specify the service plan like whether the local distributor will address the issue or the parent company.
14. Terms and conditions for the annual maintenance contract beyond the warranty period should be mentioned.
15. After the award of purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order.
16. Please quote the price of each optional line item, separately.
17. The committee can call vendor to demonstrate technical capability.
18. Only the Original Equipment Manufacturer or their authorized representatives shall participate in the bid.
19. The order will be placed only on the bidder who participated in the bid

Detailed Technical Specifications

Spectrofluorometer

Technical requirements: Please note that the requirements listed below are only guidelines. It does not disbar bids that do not meet the criteria listed. Vendors are requested to quote for equipment that meet the criteria to the best extent possible and list deviations. They will be discussed by the technical committee prior to making an informed decision.

- **Signal-to-Noise Ratio:** Water Raman signal: 10,000:1 in FSD method
 - **Excitation Source:**
 - a) Suitable high-power Ozone free Xe CW lamp, Light collection and focusing by off-axis mirror for maximum efficiency at all wavelengths.
 - b) High power pulsed laser (with peak WL 340 ± 5 nm, WL 375 ± 5 nm; Pulsed width < 90 ps). We will choose both or one of the two lasers. Itemized costs should be provided in the tender bids.
 - c) High power Pulsed Xenon source for phosphorescence decay measurements.
 - **Excitation Monochromator:** Plane grating Czerny-Turner design, maintains focus at all wavelengths and minimum stray light. Focal length 200mm or more, excitation Grating: 1200 lines/mm blazed between 300-350 nm. resolution 0.3 nm or better, accuracy ± 0.5 nm or better, range 200-900 nm (preferred), With variable spectral band pass 0 to 30 nm or better. Built in filter wheel for higher order removal. Grating efficiency should be greater than 50% at Centre wavelength of 500 nm.
 - **Emission Monochromator:** Plane grating Czerny-Turner design with double faring turret, maintains focus at all wavelengths and minimum stray light. Focal length 200mm or more focal length, emission Grating: 1200 lines/mm blazed at 500 nm; resolution 0.3 nm or better, accuracy ± 0.5 nm or better, range 200-870 nm, With variable spectral band pass 0 to 30 nm or better. Built in filter wheel for higher order removal. Grating efficiency should be greater than 50% at Centre wavelength of 500 nm.
 - **Scan Speed:** 80 nm/sec or better
 - **Integration Time:** 1ms-160 sec or better
 - **Detectors:** PMT in TE cooled housing capable measuring signal 200-900 nm,
- Reference Detector:** UV enhanced Silicon Photodiode for Excitation correction, Transmission Detector: Silicon photodiode for Absorbance measurement.
- **Sample Compartment:** Liquid sample holder and Front face solid sample holder for thin films, powders, pellets, microscopic slides etc.

- **Filters:** Set of seven long pass filters wavelength around 330 nm, 395 nm, 455 nm, 495 nm, 550 nm, 590 nm, and 645 nm. We would prefer to have an automatic software based filter selection if possible.
- **PLQY:** Integrating sphere (minimum 150mm diameter) and complete set of related items for measuring PLQY of samples in solid/thin film/solution. The vendor should supply PLQY measurement standard with which we can calibrate the system within 1% standard error.
- **Phosphorescence Lifetime Capability:** Measurement of phosphorescence decays in the time range $<5 \mu\text{s}$ to 10 s
- **TCSPC measurements:** Fluorescence lifetime measurements capabilities in the time range of picoseconds to microseconds (should be upto 5 microseconds). All the related hardware and software accessories must be included.
- **Quartz cuvette:** 3ml Quartz cell 1cm x 1 cm open top with cap (Qty-2)
- **Warranty:** Standard one year warranty on the entire system.
- **One software license key for operating the software in another computer independently.**
- **Installation and student training as required (No extra cost).**

Optional items

1. Cryostat: Temperature-dependent measurements for film/solution/powder (77 K-300 K). (Oxford Optistat DN is preferred) with temperature controller.

Turbo molecular pump 10^{-6} mbar ultimate pressure (Edward or Pfeiffer is preferred)

All the required sample holders for liquid and solid samples.

2. Warranty: Please provide the additional cost for three years standard warranty in place of a one year warranty.

Other requirements:

1.	Suitable computer workstations, and all interfacing hardware and software for instrument control, data acquisition, data storage and data processing for steady state and time resolved. license for data analysis software.
2.	Please include other options currently available which can be added on in the future with their itemized cost.
3.	Training and installation: Different options for training and installation by service engineer to be listed and quoted.

4.	The cost of shipping to IISc should be included.
5.	List of acceptance tests for on-site (vendor) inspection and after installation at IISc.
6.	A set of basic experiments for performing routine checks of acceptable operation with clear instructions to be provided.
7.	The payment terms will be specified in the commercial proposal and is subject to negotiations.
8.	Please provide details of the number of trained personnel in India, number in southern region or in Bangalore who can service the instrument.

Section 4 - Terms and Conditions

- 1) Comprehensive on-site warranty will start from date of successful installation.
- 2) The vendor must quote for a non-comprehensive Annual Maintenance Contract (AMC) price beyond the warranty, with a price lock in for 3 years beyond the standard warranty period, 2-3 services per year should be included in the AMC. AMC should be clearly mentioned after the warranty period.
- 3) The tender document should also indicate what kind of service/maintenance is required for the system. Also mention that whether the service has to be carried out by a company engineer or it can be carried by trained service personnel within India.
- 4) Power requirement: Indian standard power supply, 220/240 Volts AC with frequency 50 Hz.
- 5) Operation and service manual in English (electronic and hard copy) with complete circuit diagram and PCB layout for all equipment should be provided with the instrument.
- 6) Standard samples (if required) to be provided by the company for testing the instruments at the time of installation on site to the quoted accuracy in the given technical specification for the demonstration of the performance of equipment.
- 7) Pre-installation site preparation requirements to be indicated and specified along with the bid.
- 8) Installation and on-site training of our staff (minimum three training courses with minimum three sessions each) in operation and maintenance are essential by factory trained personal free of cost.
- 9) Provide the segmented quotation for each optional measurement capabilities. Depending upon the budgetary provision and priority, the items to be purchased will be decided.
- 10) Bid should include all other essential auxiliary equipment and spares for its operation, even which are not explicitly specified above (provide list with details).
- 11) All sample handling kits/consumables should also be provided.
- 12) The vendor is responsible for the complete and successful installation of the system at the institute.
- 13) The price quotation should include the cost of installation and training of potential users.
- 14) GST is applicable as per Govt. of India GST law and must be mentioned in the price bid.

In case due to any error / oversight, the GST quoted by the bidder is less than the actual rate as per tariff, the bidder will not be permitted to rectify the error/oversight. The orders / contract will be placed for the total amount including the (lower) rate/s quoted by the bidder, with reduced basic amount to the extent of difference in tax/duty amount, so that the total amount (basic + actual rate as per tariff), remains same (quoted basic + quoted rate). The difference amount payable, if any, between the quoted rate and actual rate as per tariff shall be borne by the bidder.

- 15) The vendor should have a track record of having previously supplied at least five identical instruments in CFTIs such as JNCASR, IITs, IISERs, NITs with above mentioned specifications. **Details of such systems should be provided.** Vendor must provide the user list (with contact details including emails and phone numbers) of at least 5 customers from Indian Institutes/Labs with contact person name, address, phone, fax and email Ids should be provided. The primary focus of these installed systems should have included reliable data in the form of pictorial graphs, temperature dependent spectra must be provided.
- 16) The committee reserves the right to reject the technical bid if the above condition is not satisfied.
- 17) The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of <48 hours.
- 18) The lead-time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
- 19) If the supplier fails to Supply, Install and Commission the equipment as per the specifications mentioned in the PO within the due date, the Supplier is liable to pay a penalty of @ 0.5% of order value per week of delay subject to a maximum of 10% beyond the due date. IISc reserves the right to cancel the order in case of excessive delay.
- 20) The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
- 21) Wherever requested data must be supplied along with technical compliance documents. Technical bids without supporting data will be deemed technically non-compliant.
- 22) All guaranteed specifications may have to be demonstrated at the time of installation. Any necessary standard samples for that purpose should be brought by the service engineers.
- 23) The vendor must provide a compliance statement in a tabular form concerning each technical specification in the tender document duly supported by the manufacturer's literature and published papers. Any other claim will not be accepted and may lead to rejection of the bid.
- 24) Technical evaluation by the institute may include a demonstration to verify functionalities and capabilities of the system quoted. The institute reserves the right to provide samples after opening the technical bids for verification of promised specifications. Any discrepancy between the promised specifications and measurements will be deemed as technical non-compliance. Committee also reserves the right to modify the stipulated eligibility criteria at any time during the tenure of procurement.

- 25) Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc, Bangalore.
- 26) Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.
- 27) All Imported items should be shipped on C.I.P. Bangalore basis (by *Air Freight* only).
- 28) All quotations must be valid for at least 90 days at the time of submission.
- 29) When a foreign vendor does not have a local agent in India, he can submit a demand draft equal to 2% or wire transfer the amount to our account as detailed in the attachment (Annexure II) and enclose the proof with the financial bid.
- 30) **Payment:** - No Advance payment will be made for Indigenous purchase. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e., (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done). Any loss due to fluctuation in foreign exchange rates will be at the beneficiary account.
- 31) **Performance Security:** -The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply within 21 days from the issue of work/purchase order. The Performance Security should be furnished in the form of an Account Payee DD / FD Receipt from the commercial bank (or) Bank Guarantee from any nationalized bank in India.
- 32) **Accept /Reject:** IISc Bangalore reserves the full right to accept / reject any tender at stage without assigning any reason.
- 33) **Settlement of Disputes:** Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore in Karnataka.
- 34) **Risk Purchase Clause:** - In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.

Annexure 1:

Details of the Bidder: The Bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Sr. No.	Type	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License, (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name:
Designation, Seal

Date:

Annexure 2:

Declaration regarding experience

To,
Dr. P. Rajamalli,
Materials Research Centre
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXXX

Dated: XXXXX

Supply and installation of spectrofluorometer

Sir,

I have carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has years of experience in supplying and installing the spectrofluorometer.

(Signature of the Bidder)

Printed Name Designation, Seal

Date:

Annexure 3:

Declaration of track record

To,
Dr. P. Rajamalli,
Materials Research Centre,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of spectrofluorometer.

Sir,

I have carefully gone through the Terms & Conditions contained in the above referred tender.

I hereby declare that my company / firm is not currently debarred / blacklisted by any Government / Semi-Government organizations / institutions in India or abroad. I further certify that I am competent officer in my company / firm to make this declaration.

OR

I declare the following:

Sr. No.	Country in which the company is debarred/ blacklisted / having pending case	Blacklisted / debarred by Government / Semi Government Organizations or Institutions / having pending case	Reason	Time Period

(Note: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

(Signature of the Bidder)
Printed Name Designation, Seal

Date:

Annexure 4:

Declaration of acceptance of terms and conditions

To,

Dr. P. Rajamalli,

Materials Research Centre,

Indian Institute of Science,

Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXXX

Dated: XXXXX

Supply and installation of spectrofluorometer.

I have carefully gone through the Terms & Conditions contained in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully
(Signature of the
Bidder)

Printed Name Designation, Seal

Date:

Annexure – 5:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Commercial Bid:

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned:

Addressed to:

The Chairman

Materials Research Centre
Indian Institute of Science (IISc)
Bengaluru, India - 560012
Kind attention: **Dr. P. Rajamalli**
Email: rajamalli@iisc.ac.in

The sealed bids should be sent to the following address:

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Bengaluru, India - 560012.
Ph: +91-9932207177
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S. No	Description	Cat. Number	Quantity	Unit Price	Sub Total
1.	Essential items noted in the technical specification				
1.a	(details of essential items)				
1.b					
2.	Optional items noted in the technical specification				
2.a	(details of essential items)				
2.b					
3.	Accessories for operation and installation				
4.	All consumables, spares and software to be supplied locally				
5.	Warranty (3 years)				
6.	AMC 3 years beyond warranty				
8.	CIP/CIF IISc, Bengaluru				

Any additional items, such as Spares and Hardware/PCBs Likely to go obsolete after the next 3 Years

Section 5: Checklist

(This should be enclosed with a technical bid- Part A)

The following items must be checked before the bid is submitted:

1. Sealed Envelope “A”: Technical Bid

Technical bid (each page signed by the authorized signatory and sealed) with the below annexures:

- a. Annexure 1: Bidders details
- b. Annexure 2: Declaration regarding experience
- c. Annexure 3: Declaration of track record
- d. Annexure 4: Declaration of acceptance of terms and conditions
- e. Annexure 5: Details of item quoted
- f. Declaration of Local Content by Local supplier

2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

3. Sealed Envelope “B”: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (**Envelope A**) and Commercial Bid (**Envelope B**), superscribing on both the envelopes with, Tender description, Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.