



**भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान कोलकाता**  
**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA**  
 (An Autonomous Institute under Ministry of HRD, Deptt. of Higher Education, Govt. of India)  
 PO: MOHANPUR, DIST. NADIA, PIN - 741246, WEST BENGAL, INDIA  
 E-Mail: [purchase@iiserkol.ac.in](mailto:purchase@iiserkol.ac.in)

EoI Ref. No: IISERK/EOI-1021/G/CF/2025-26

Date: 01/12/2025

## Expression of Interest (EOI) – Non-Committal

Indian Institute of Science Education Kolkata (hereafter referred to as “Institute”) invites online Expression of Interest (EOI)-Non-Committal (hereafter referred to as “EoI”) from Original Equipment Manufacturer (OEM) or their Authorized Agent (hereafter referred to as “Supplier”) for ***Steady State and Time Resolved Spectrometer with Accessories and Attachments***.

The Institute intends to finalize the proposed purchase of ***Steady State and Time Resolved Spectrometer with Accessories and Attachments*** including specification and any other relevant issue in this respect.

The EOI document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app>

OR Institute website- <https://www.iiserkol.ac.in/web/en/announcements/tender>

### SCHEDULE OF DATES:

Sr. No	Particulars	Date	Time
1	Date of Online Publication/Download of EOI	01/12/2025	10:00 A.M.
2	EOI Submission Start Date	01/12/2025	10:00 A.M.
3	EOI Submission Close Date	15/12/2025	02:00 P.M.
4	Date of meeting at DCS meeting Room, IISER Kolkata, Mohanpur Nadia, 741246, W.B, India	16/12/2025	11.00 A.M. (Reporting Time)

### Note :

All interested and eligible suppliers are hereby informed that their Expressions of Interest (EoI) must be submitted strictly through the Central Public Procurement (CPP) Portal within the stipulated timeline. The procuring authority shall not accept any proposal, supporting document, or correspondence submitted through offline means, email, courier, or any other mode.. Suppliers are therefore advised to ensure timely and complete submission through the prescribed online platform.

Signature of the Bidder with Company Stamp

**DETAILED TECHNICAL SPECIFICATIONS FOR A STEADY STATE AND TIME RESOLVED  
SPECTROMETER WITH ACCESSORIES AND ATTACHMENTS.**

UV-VIS fluorescence spectrometer for steady-state and time-resolved measurement and other accessories in solution, solid-state, film and powder sample as indicated below:

PARTICULAR/REQUIRED SPECIFICATION	BIDDER'S OFFER
<ul style="list-style-type: none"> <li>▪ <b>Signal-to-Noise Ratio:</b> Water Raman signal: 10,000:1 (or better)</li> <li>▪ <b>Excitation Source:</b> 150 W or high-power Ozone free Xe CW lamp, Light collection and focusing by off-axis mirror for maximum efficiency at all wavelengths.</li> <li>▪ <b>Excitation: Monochromator:</b> Plane grating Czerny-Turner design, maintains focus at all wavelengths and minimum stray light. Wavelength coverage: 200-1000 nm (preferred). Sensitivity: &gt;10,000:1 Grating: 1200 g/mm Wavelength accuracy: <math>\pm 0.5</math> nm or better Resolution 0.3 nm or better with variable spectral band pass 0 to 30 nm or better Automated software-controlled filter wheel for second order removal is preferred.</li> <li>▪ <b>Emission Monochromator:</b> Plane grating Czerny-Turner design, maintains focus at all wavelengths and minimum stray light. Wavelength coverage: 200 to 1000 nm (preferred) Grating: 1200 g/mm blazed Wavelength accuracy: <math>\pm 0.5</math> nm or better Resolution 0.3 nm or better with variable spectral band pass 0 to 30 nm or better. Automated software-controlled filter wheel for second order removal is preferred.</li> <li>▪ <b>Scan Speed:</b> 80 nm/sec or better</li> <li>▪ <b>Integration Time:</b> 1ms-160s or better</li> <li>▪ <b>Detectors:</b> <ul style="list-style-type: none"> <li>a) Single photon counting standard PMT in temperature stabilizing housing capable measuring signal 200-870 nm response width less than 600 ps.</li> <li>b) Reference Detector: UV enhanced Silicon Photodiode for Excitation correction,</li> <li>c) Facility to measure transmission/absorbance of the sample.</li> </ul> </li> </ul>	

Signature of the Bidder with Company Stamp

PARTICULAR/REQUIRED SPECIFICATION	BIDDER'S OFFER
<ul style="list-style-type: none"> <li>▪ <b>Sample Compartment:</b> Lid activated detector protecting shutter assembly. Liquid sample holder and Front face solid sample holder for thin films, powders, pellets, microscopic slides etc.</li> <li>▪ <b>Filters:</b> Set of suitable long pass filters.</li> <li>▪ <b>TCSPC measurements:</b> Fluorescence lifetime measurements capabilities in the time range of picoseconds to microseconds. All the related hardware and software accessories must be included.</li> <li>▪ <b>Lifetime upgrade</b> Measurement of fluorescence decays from 25 ps (light source dependent) to 10 <math>\mu</math>s using TCSPC. High speed detection module in temperature stabilized housing with spectral range 230-850 nm. TCSPC data acquisition module and software</li> <li>▪ <b>TCSPC source:</b> <ol style="list-style-type: none"> <li>1. Pulsed LED with peak WL <math>320 \pm 10</math> nm (Typical Pulse Width – 800 ps)</li> <li>2. Pulsed Laser with peak WL <math>375 \pm 5</math> nm (Typical Pulse Widths @ 10 MHz - 60 ps)</li> <li>3. Pulsed Laser with peak WL <math>450 \pm 7</math> nm (Typical Pulse Widths @ 10 MHz - 120 ps)</li> </ol> </li> <li>▪ <b>Liquid Nitrogen Cryostat:</b> liquid nitrogen cryostat along with all the controllers and sample holders, sample chamber adapter module and all the other related accessories for the complete measurement of liquid and solid (both the thin film and powder) samples from 77K-300K.</li> <li>▪ <b>Turbomolecular/Dry Scroll Pump for Cryostat (Optional)</b></li> <li>▪ <b>Computer hardware and software:</b> Suitable computer workstations, and all interfacing hardware and a single software for instrument control, data acquisition, data storage and data processing for steady state and time resolved. License for data analysis software.</li> <li>▪ <b>Warranty and AMC:</b> Standard five-year warranty on the entire system from the date of installation.</li> </ul>	

Signature of the Bidder with Company Stamp

PARTICULAR/REQUIRED SPECIFICATION	BIDDER'S OFFER
<ul style="list-style-type: none"><li>▪ One software license key for operating the software in another computer independently.</li><li>▪ KVA UPS with 30 mins back up.</li><li>▪ Installation and student training as required (No extra cost).</li></ul>	

**Instruction to the Bidder:**

The Institute shall convene a meeting as stated above where the interested suppliers must attend physically. They may give a small presentation and also discuss any relevant matter in respect of the proposed purchase of said item/equipment.

The Tender Committee (TC) reserves the right to finalize the proposed purchase of said item/equipment.

Once the proposed purchase of said item/equipment is finalized, a fresh tender shall be invited following the extant norms of Government of India/Institute seeking complete bids open to all. No Pre-Bid meeting may not be conducted then since this EoI is expected to take care of all such necessary needs.

If you agree with the entire content of this EoI including disclaimers, please explicitly provide a declaration regarding the same and a signed declaration as per Annexure-I along with the proposal.

For any query, please write to [purchase@iiserkol.ac.in](mailto:purchase@iiserkol.ac.in)

**Declaration**

I/We hereby declare that all the information provided above is true to the best of my/our knowledge and belief.  
I/We agree to provide all necessary supporting documents as required.

Authorized Signatory: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Company Seal: \_\_\_\_\_

Date: \_\_\_\_\_

## ANNEXURE-1

## PROFORMA FOR BIDDER INFORMATION

(For Participation in the EOI for Procurement of a Steady State and Time-Resolved Spectrometer with Accessories and Attachments)

## 1. General Information

Particulars	Bidder's Remarks / Information
1.1 Name and Address of the Company / Organization / Authorized Agent	
1.2 Type of Organization (Proprietorship / Partnership / Pvt. Ltd. / Public Ltd. / Govt. / PSU / Others – specify)	
1.3 Year of Establishment	
1.4 Website (if any)	

## 2. Authorized Signatory Details

Particulars	Bidder's Remarks / Information
2.1 Name of the Authorized Signatory / Concern Person	
2.2 Designation	
2.3 Contact Details (Phone / Mobile / Email)	

## 3. Foreign Principal Details (If Applicable)

Particulars	Bidder's Remarks / Information
3.1 Name and Address of the Foreign Principal	
3.2 Contact Person Details (Name / Phone / Email)	
3.3 Country of Origin of the Equipment	

Signature of the Bidder with Company Stamp

## 4. After-Sales Support &amp; Service Information

Particulars	Bidder's Remarks / Information
4.1 Details of Service Centre in India (Address, Contact Person, Phone, Email)	
4.2 Number of Trained Engineers Available in India	
4.3 Availability of Spare Parts & Consumables (Yes/No)	
4.4 Warranty Offered (Duration & Coverage)	

## 5. Compliance &amp; Documentation

Particulars	Bidder's Remarks / Information
5.1 Whether the Item / Equipment is Duty-Free	
5.2 If Duty-Free, Whether Supporting Documents / Declarations Attached	
5.3 Whether the Bidder is OEM / Authorized Representative / Dealer (Attach Authorization Certificate)	

## 6. Experience &amp; Installations

Particulars	Bidder's Remarks / Information
6.1 Details of Users of Similar Items in India (Institute / Organization, Year of Installation, Model Supplied)	
6.2 Experience in Supplying Spectroscopy Equipment (Years)	

Signature of the Bidder with Company Stamp

## 7. Delivery &amp; Installation

Particulars	Bidder's Remarks / Information
7.1 Possible Delivery Period (from Date of PO)	
7.2 Estimated Time for Installation & Commissioning	
7.3 Training Provision (Yes/No; Details if Yes)	

## 8. Additional Information (If Any)

Particulars	Bidder's Remarks / Information
Any Additional Information the Bidder Wishes to Provide	

## Declaration

I/We hereby declare that all the information provided above is true to the best of my/our knowledge and belief.  
I/We agree to provide all necessary supporting documents as required.

Authorized Signatory: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Company Seal: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Bidder with Company Stamp