

**Department of chemistry
University of Kerala,
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No. DC/ST/Eq/3/2018-19

E-TENDER NOTICE

Tenders are invited for the "Supply, Installation and commissioning of **"Simultaneous Fluorescence and Absorbance spectrometer"** through e-tender only.

Tender notification Date	:- 26/09/2018
Last date of issuing tender document through www.etenders.kerala.gov.in	:- 16/10/2018
Last date of Receiving e-tender through www.etenders.kerala.gov.in	:- 16/10/2018
Date of Opening Technical Bid	:- 20/10/2018
Date of Opening Financial Bid	:- After Technical Evaluation
Earnest money Deposit	:- INR 20,000/-
Tender fee	:- INR 4720/-

Tender Submission: - Two part tender comprising of Technical bid and Financial Bid shall be submitted through e-tender website www.etenders.kerala.gov.in

Tender Inviting authority: Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom Campus, Thriuvananthapuram, Kerala-695581.

Specification of Simultaneous Fluorescence and Absorbance spectrometer

The offered system should be Two-in-one simultaneous fluorescence and absorbance Spectrometer. It should have following specifications.

1. **Wavelength range:** The system should have detection range from 250 to 1,100 nm or better for UV-Vis-NIR Fluorescence Detection. The Absorbance Wavelength Range should be 250 to 1,000 nm.
2. **Sensitivity (signal to noise ratio):** The system should offer Fluorescence Sensitivity Specification of 5,000:1 RMS or better.
3. **Wavelength Accuracy:** ± 1 nm or better.

4. **Detector:** The offered system should have two specialized sample detectors simultaneously to collect fluorescence at right angles to the excitation light, and absorbance straight through the sample. The system should be able to plot Excitation Emission Matrix.
5. **Sample Holder:** Necessary holders and cells should be provided for liquids, thin films, powders, pellets, papers, fibers, and microscopic slides and it should have variable alignment angle.
6. **Temperature control measurement:** Cuvette Peltier holder (1 cm) for automated temperature control and ramping from -15 °C to +99 °C, with magnetic micro-stirrer should be provided. It should include external water circulator for heat sink.
7. **Polarizer:** Polarizers for anisotropic studies should be quoted.
8. **Quartz Cuvette:** Two numbers of 4ml cuvette with 10mm path length with open top cap should be provided.
9. **Control and Analysis Software:** Comprehensive software compatible with Windows 7 or higher OS environment for instrument control, data acquisition and data analysis.
10. **Computer:** Computer with latest specification, Windows 7 operating system or higher, loaded with software for data collection, analysis and system control should be supplied.
11. **UPS:** Suitable online 3 KVA UPS for the System with minimum 1 hr back up (make Numeric or APC) should be quoted.
12. **Warranty:** The quoted system should be under comprehensive warranty (including detectors) for 36 Months or more from date of Installation.

Documents to be Uploaded

1. Signed Compliance Matrix on specifications
2. Detailed Technical Brochure
3. BoQ
4. Hard copy of Bank Guarantee if opted

General Conditions:

1. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals , if any. Who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipments must be of the most recent series/models incorporating the latest improvements in design.
2. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.

3. The price should be inclusive of all taxes, transportation, installation etc. Nothing extra will be paid in addition to the quoted rate.
4. Payment Terms: 90% payment shall be made through irrevocable L/C on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation, commissioning and acceptance of the equipment.
5. Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
6. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training for a minimum of three people should be made at Department of Chemistry, University of Kerala, Kariavattom campus, Trivandrum-695581, without any extra cost.
7. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales support.
8. The model number, make, and a printed literature of the product shall submit positively.
9. A signed compliance matrix (on specifications and conditions) to be submitted along with the quote.
10. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
11. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

The Head
Department of Chemistry
University of Kerala