



University of Mumbai - Department of Atomic Energy
CENTRE FOR EXCELLENCE IN BASIC SCIENCES
Nalanda, University of Mumbai, Vidyanagri Campus, Santacruz (E),
Mumbai 400098.

Web: www.cbs.ac.in

email: purchase@cbs.ac.in

Tender No. CBS/CA025-017

Date : February 6, 2026

Dear Sir/Madam,

Please send us your lowest quotation for the following requirements:

Sr. No.	Description of Material	Qty.
1.	Fluorescence spectrophotometer As per the specifications attached in Annexure I	01

Note :

1. You are requested to submit the tender in two parts i.e. technical and financial bids in separate envelope.
2. Prebid Meeting to be held on April 28, 2026 at 11.00 am in UM-DAE CEBS, Nalanda University of Mumbai, Kalina Campus, Santacruz (East), Mumbai - 400098.

Your quotation should indicate make, delivery period, exact taxes applicable and delivery charges, if any. CEBS is an educational institution hence, kindly give an educational discount. **Quotation to be submitted in a sealed envelope** duly superscripted with enquiry No. and date. Your GST Registration Number should be quoted in the quotation.

The due date for submitting your offer against this enquiry is May 12, 2026.

Specifications:

Fluorescence spectroscopy is a fundamental analytical technique in chemistry because of its high sensitivity and molecular specificity. The instrument will be required to perform advanced fluorescence-based assays and enzyme kinetics studies involving proteins, enzymes, and synthetic molecules. The facility will be extensively utilized by PhD and M.Sc. students across different schools of CEBS.

Detailed technical specifications

Sr No.	Specification	Description
1	Excitation source	150 W CW ozone free Xenon arc lamp
2	Excitation Monochromator	Plane grating Czerny-Turner design, maintains focus at all wavelengths and minimum stray light. Focal length 220mm or more. Excitation Grating: 1200 lines/mm blazed between 300-400 nm. Resolution 0.3 nm or better, accuracy ± 0.5 nm or better, optical range 220-600 nm (or better), With variable spectral band pass 0 to 30 nm or better. Automated Filter wheel for Second order removal.

3	Emission Monochromator	Plane grating Czerny-Turner design with double faring turret, maintains focus at all wavelengths and minimum stray light. Focal length 220mm or more focal length. Emission Grating: 1200 lines/mm blazed at 400-500 nm; resolution 0.3 nm or better, accuracy ± 0.5 nm or better, optical range 300-900 nm, With variable spectral band pass 0 to 30 nm or better. Automated Filter wheel for Second order removal.
4	Wavelength Accuracy	± 0.5 nm or better
5	Integration Time	1 ms-160 sec or better
6	Detectors	Base detector: Photomultiplier, should have high sensitivity and response in range of 185 to 900 nm, air cooled, stabilized Reference detector: UV enhanced calibrated Silicon Photodiode, range should be 240-900 nm or better
7	Water Raman S/N	12,000 : 1 FSD method or better with no optical filters
8	Sample compartment	Liquid sample holder for solution sample measurements for 1 cm path length cuvette
9	Steady State Reaction Kinetics Acquisition Rate	1 KHz to 0.02 Hz
10	Computer hardware and software	Computer workstations (Core i7, 22" monitor, Windows 11, 1TB SSD, 16 GB RAM) and all interfacing hardware and software for instrument control, data acquisition, data storage and data processing. License for data analysis software for unlimited period.
11	Warranty	Three years standard comprehensive warranty on the entire system
12	UPS	UPS for power backup
13	Installation and student training	At the user's site at no extra cost, statement for service support after satisfactory installation and demonstration at the site.
14	Calibration tools	Calibration tools for spectral correction.
15	Cuvettes 10 mm pathlength	One set of cuvettes along with holder for sample volume 3 ml and 1 ml separately

Optional items

1	Peltier system	Rapid Peltier temperature-controlled single sample holder receiving standard cuvettes (1cm pathlength) for the temperature control of the samples from -10°C to $+100^{\circ}\text{C}$. Water recirculatory and adjustable magnetic stirrer and a stir bar. Software controlled allowing automated temperature ramp experiment.
2	Polarizer pairs	Polarizer pairs with holder in the sample chamber for steady-state anisotropy measurements

Terms and Conditions:

- a) The entire system should be of single principle(s) (manufacturers) and quotation should be provided by their authorized distributor only.



- b) *Users list*: Should provide minimum 3 no's of Performance Certificates of similar systems from Premier government institutes, State/Central Universities, CSIR Labs, IITs, TIFR, BARC etc.
- c) List of Users of the Quoted System with Phone no, Email id should also be enclosed
- d) The offer should clearly mention the Part No and Model Quoted along with the technical specifications. Original brochures and specification sheets should be enclosed in the technical bid of the offer.
- e) Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page number of original catalogue / data sheet.
- f) Vendor should provide a copy of Site-Preparation checklist

