



CENTRAL INSTRUMENTATION LABORATORY
ASSAM UNIVERSITY, SILCHAR

(A Central University constituted under the Act of Parliament of India in 1994)

www.aus.ac.in

NOTICE INVITING TENDERS

(Limited Tender)

Assam University, Silchar, a central university invites **SEALED BIDS** from reputed manufacturers /authorized distributors / authorized firms with sound technical capabilities for supply, installation and commissioning of **fluorescence spectrophotometer** to be procured under DST Sponsored Fast Track project in Central Instrumentation Laboratory, Assam University, Silchar.

Last Date of submission of sealed tenders: 21 days from date of advertisement

Description and specification of fluorescence spectrophotometer	
Principle	Computer controlled ratioing luminescence spectrometer with the capability of measuring fluorescence, phosphorescence, chemiluminescence and bioluminescence. Instruments must have variable pulse rate, delay, and gate times.
Source	Should have Xenon flash lamp, pulsed at a line frequency (50 or 60 Hz); pulse width at half peak height < 10 μ s; power equivalent to 20 kW at continuous operation; delay (td) and gate time (tg) should be varied to measure phosphorescence. Source should have provision to turn off to measure chemiluminescence , bioluminescence.
Sample Detector	Photomultiplier with modified S5 response for operation up to around 650 nm. Red-sensitive R928 photomultiplier for operation up to 900 nm to be included
Reference Detector	Photodiode for operation up to around 800 nm.
Monochromators	Monk-Gillieson type monochromators or equivalent to cover the following ranges: <ul style="list-style-type: none">• Excitation: 200-800 nm with zero order selectable.• Emission: 200-650 nm with standard photomultiplier with zero order selectable, 200-900 nm with optional R928 photomultiplier. Synchronous scanning should be available with constant wavelength or constant energy

	difference.
Wavelength Accuracy	Should have + 1.0 nm
Wavelength Reproducibility	Should have + 0.5 nm
Spectral Bandpass	10nm slits for both excitation and emission
Phosphorescence Mode	Delay and gate times to be varied to measure phosphorescence.
Scanning Speed	Scanning speed can be selected in increments of 1 nm for 10-1500 nm/min. Time-dependent data can also be collected.
Sensitivity	Signal to noise atleast 500:1RMS, using the Raman band of water
Standard Cell Holder	A single position water thermostatable holder for 10 mm cuvettes.
Data acquisition and analysis:	Instrument parameters should be controlled by software. The luminescence intensity and the excitation and emission wavelength can be displayed in real-time. Spectral and Time Drive data should be displayed in real-time and can be stored on disc. Routines should be available for performing mathematical calculations on stored data. These should include arithmetic functions, smoothing, 1-4 th order derivatives, area, peak and normalization. Wavelength program for storing atleast eight pairs of excitation and emission wavelengths with variable integration and cycle times.

1. The tenders complete in all respects should be addressed to **Dr. S.S.Nath, Principal Investigator & Associate Professor, DST-Fast track, Central Instrumentation Laboratory, Assam University, Silchar-788011, India.**
2. The tenderers for equipments must submit the bid(s) in two-bid system (Technical and Financial).
3. Tenders by e-mail, Fax, Telex, Telegram will not be accepted. Tenders must be submitted in sealed envelope only.
4. In case of any modification in specifications / terms and conditions / any clarification to the bid document, it will be hosted in the university website only and the bidders are requested to log to our website from time to time and no separate corrigendum will be issued in this regard.
5. The rate should be exclusive of taxes and applicable tax should be clearly indicated.
6. The rates should be quoted along with supporting documents of specifications, technical features, list of users and authorized dealership documents (if applicable)

7. Details of availability of after sales support will have to be furnished.
8. **The university is exempted from paying Customs and Excise duty.**
9. Proprietary items should be quoted with sole Manufacturer / Dealership certificate. Without dealership or manufacturer's certificate no bids will be accepted.
10. No advance payment will be made. However, if items are of foreign origin, advance payment can only be made in the form of vide **LOC/FDD/Wire Transfer. Performance Bank Guarantee may be submitted as per rules covering warranty period.**
11. Items of foreign origin should have insurance up to installation site.
12. If any item / equipment delivered in damaged condition, the equipment should be replaced with new one immediately.
13. In case of equipment of foreign origin, the Indian agent should submit one undertaking in nonjudicial stamp paper, stating that if any equipment delivered in damaged condition they will be liable to replace the same with a new one (**applicable only when order is placed**).
14. The university reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.
15. **Opening of tender on 19th May 2015 at 1:00 PM.**

Sd/-

Dr. S.S.Nath

Principal Investigator & Asso.Professor
Central Instrumentation Laboratory
Assam University, Silchar – 788 011,
INDIA

Copy to:

1. Copy to Secretary to VC, AUS for VC's kind information
2. The Chairman, DPC, CIL, AUS
3. The Registrar, AUS
4. The Finance Officer, AUS
5. Director, Computer Centre, AUS for uploading in the university website (www.aus.ac.in)
6. File for record