

Sealed quotations are invited from manufacturer/authorized dealers/service providers for supplying FT-IR Spectrometer as per technical specifications listed below.

General terms and conditions

1. The tender notice may be withdrawn at any time without assigning any reason thereof.
2. The decision of the departmental purchase committee in this matter is final.
3. DSIR certificate, road permit etc. will be provided by the department as and when required.
4. The instrument along with required accessories should be delivered at the Dept. of Chemistry, NEHU, Shillong in good and working condition free of cost. Necessary documents for clearance will be provided .
5. The quotation should be drawn in the name of **'The Coordinator, UGC-CAS Program, Department of Chemistry, NEHU, Shillong – 793022, Meghalaya'**
6. The instrument should have three years warranty and two additional years of extended warranty (quote separately).
7. A letter from the Principal should also be furnished guarantying that all the terms and conditions agreed by the supplier as written in the quotation as well as in the tender notice will be taken care of by the Principal in the event the supplier departs the Principal.
8. Payments terms must be either Letter of Credit or Wire transfer after delivery of the consignment.
9. Incomplete offer will be summarily rejected.
10. **The last date submission of quotation is 28/06/2017.**

Note: This revised tender is in lieu of our last tender published on the University website on 31st May, 2017. Those who participated in the last tender process end on 14/06/2017 may submit revised quotation or confirm to continue with the submitted quotation.

Sd/-
The Coordinator, UGC-CAS
Department of Chemistry
NEHU, Shillong
Dated: 21st June, 2017

Tender Specification for FT-IR Spectrometer with accessories:

❖	The FT-IR should be supplied with ZnSe optics. Gold coated mirrors preferable.
❖	The instrument must have a scan range of 6500 - 550cm ⁻¹ or better
❖	The system should have a spectral resolution of 0.5 - 1 cm ⁻¹ or better
❖	Should have DTGS/DLATGS detector
❖	The instrument should be equipped with rotary Michelson interferometer for fast scanning, self-compensating for dynamic alignment changes due to a tilt and shear
❖	Long-life sealed and desiccated optical unit incorporating special design for extended desiccant life, Vibration isolated base-plate. Should not require nitrogen purging.
❖	The source should be Long-life source preferably user replaceable.
❖	A real-time Atmospheric Vapour Correction utility must be available. This should not require the collection of reference or calibration spectra.
❖	The system should at least have a signal to noise ratio of 50,000: 1 peak-peak, 1 min
❖	Wavelength accuracy at least 0.1 cm ⁻¹ at 3000 cm ⁻¹ or better
❖	Wavelength precision of at least 0.01 cm ⁻¹ at 3000 cm ⁻¹ or better
❖	The instrument must use USB, wireless and TCP/IP interface allows direct connection with LAN. Instruments should have facility to be configured with wireless router communication.
❖	Along with the main instrument, following accessories should be offered of the FTIR system :
	- Demountable Cell Mount – 02 Nos.
	- KBr rectangular Windows (Pack of 2)
	- Assorted Rectangular Spacers
	- 13 mm KBr Die Set
	- Potassium Bromide Pellet Holder – 02 nos.
	- Adjustable Adaptor
	- Rectangular Semi-demountable ZnSe Windows
	- AgCl windows – 02 nos.
❖	The software should be fully validated and should include the following functionality :
	- Full Instrument setup and control functions
	- Basic and advanced data manipulation routines
	- Spectral arithmetic calculations with custom Equations Editor
	- COMPARE spectral comparison
	- PLS/PCR/Beer's Law predictions
	- Beer's Law Quant method development
	- Macro writer
	- Data tune-up
	- Spectral searching/ libraries and capability to create libraries
	- Configurable reporting and data export
	- Built-in Tutorials and online Help
	- Laboratory scheduler
	- Provision for real-time results while scanning
❖	Warranty: Three years standard warranty on the instrument and additionally 5 Years warranty on Interferometer, Source and Laser or better
❖	Following indigenous items should be quoted :
	- Suitable branded PC for instrument operation
	- 15 ton Hydraulic press for KBr pallet preparation
	- Suitable online UPS with 30 mins backup to care of the instrument and the computer