

INDIAN INSTITUTE OF TECHNOLOGY ROPAR, RUPNAGAR-140001 (PUNJAB)
DEPARTMENT OF CHEMISTRY

Dated: 04-03-2010

SUBJECT: N.I.Q. for purchase of scientific equipments

Sealed quotations are invited for the supply of the FT-IR spectrometer. The equipment is to be installed at IIT Ropar (Rupnagar) Punjab. Delivery of the equipment will be required within 2-3 months of placement of the purchase order. The quotations should reach in the office of Head, Department of Chemistry (Room No.106), IIT Ropar, Nangal Road, Rupnagar-140001, Punjab, latest by 3:30 PM on March 19, 2010. The firms are requested to send offers for Technical and Commercial bid in separate sealed cover.

1. Fourier-transform infrared spectrometer (FT-IR)

One Number

Basic Requirements

1. Spectrometer comprising of the interferometer, stabilized source, sealed and desiccated KBr optics enabling to record spectrum in the range of 4000-400 cm^{-1} or better, whilst delivering 0.4 cm^{-1} resolution or better and capable to handle pk-pk noise.
2. The full size sample compartment automatically detects and optimizes performance of accessories and incorporates a quick release lid with sample viewing window. Automatic ready-for-work checks include contamination, noise, abscissa and throughput checks.
3. Instrument should be able to measure both solid and liquid samples.
4. Spectrometer shall be able to measure spectra in transmission, absorbance and diffuse reflectance mode.
5. Essential kits such as Liquid cell, KBr windows, desiccant Kit, spacers etc. for running the spectrometer.
6. Diffuse reflectance kit for FTIR spectrometer. This includes, diffuse reflectance accessory with complete mounting hardware, high temperature reaction chamber with KBr windows, automatic temperature controller up to 500°C or better.
7. Sampling tools including spatula, KBr powder, finger cots, KBr Pellet Holder, Mortar & Pestle etc.
8. It includes a fully validated software suite comprising of Spectrum software, Instrument control, Basic and advanced data manipulation routines, spectral calculator, spectral comparison, IR Expert data optimization wizard, spectrum search, Libraries, IR Tutor etc.
9. High-end Computer system with state-of-the-art hardware including laser printer

10. Twelve ton or better Hydraulic Press with KBr Die set.

11. Warranty: Three years from the date of installation

12. Installation: The equipment should be installed by certified engineer of the firm.

Terms and Conditions:

1. The equipments should be supplied and installed at IIT Ropar (RUPNAGAR) Punjab
2. The prices quoted should be inclusive of all taxes and CIF IIT Ropar
3. The quotation received after due date will not be considered
4. The Institute reserves the right to reject any quotation without assigning any reasons
5. The suppliers must support the quoted specifications with the help of original printed manuals of the equipments
6. The payment terms should be specified in the quotation clearly
7. The suppliers may mention any number of optional accessories in their quotes; however the same should be clearly distinguished from the main requirements along with their individual prices.
8. List of Institutions/University/Industry where instrument has already been installed by the supplier.
9. EMD of Rs. 25000/- in the form of Bank draft in favor of Registrar IIT Ropar, Payable at Roopnagar is to be deposited along with the quotation.

Note: Technical bid will be open on 20th March 2010 at 11:00 am.