**Department of Organic chemistry**   
**Indian Institute of Science,**  
**Bangalore**

**Quotations are invited, in two-cover format, from bidders for a Fourier Transform IR Spectrometer with the following specifications**.

**Specifications**   
Operation of instrument on 220-240 V / 50/60 Hz

Wave number measurement range of at least 7,800 to 500 cm־¹

Wave number accuracy – within ± 0.01 cm־¹

Resolution - ≤ 0.5 cm־¹

Signal to noise ratio – (≤ 5 cm־¹, ≤ 1 min scan) ≥ 30,000 : 1

Optical system – Single / Double beam

Sealed and desiccated optics

Temperature controlled and moisture / humidity resistant KBr optics

Light– high intensity long life ceramic source

Standard interferometers and detectors

Instrument alignment and performance to be immune to minor mechanical disturbances

Reliable calibration mechanism

Auto subtraction of CO2 and H2O absorptions

Provision for investigation of both solid and liquid samples

Standard sample cell holders for both liquid and solid samples

Variable temperature Sample cells / Jackets for solid samples – 2 nos

Variable temperature Sample Cells / Jackets (KBr windows) for liquid samples – 5 nos

Variable path length accessories (spacers) for liquid samples – 0.02 mm, 0.05 mm, 0.1 mm, 0.5 mm, 1 mm (2 sets of accessories for each path length)

Single / multiple (horizontal) reflection Attenuated Total Reflectance (ATR) with ZnSe prism – as a demountable integrated unit (minimum range of 7800 – 550 cm־¹)

Variable temperature Cell Holder with temperature controller with one NaCl external window and one KBr external window – for studying both solids and liquid samples, Heatable with temperature range: minimum -90 to +150 °C

Heatable cells with KBr windows for liquid samples – 2 nos

Heatable Spacers (2 sets as mentioned above) for variable path length

Heatable cells with KBr windows for solid samples – 2 nos

Suitable high quality vacuum pump (preferably oil free) for variable temperature cell

All essential accessories

Compatible Computer + Monitor + accessories – with latest RAM, suitable software and Windows installed

USB operational

Laser Printer

Compatible software for multiple users

Suitable capacity UPS with 30 min backup

Complete installation and demonstration

Warranty and service

**Bidder Eligibility Criteria**

Bidder must be licensed to supply and install the said instrument(s) in Indian Governmental Institutions

Bidder must have supplied and installed at least one instrument(s) of similar capacity  
to any govt. institution/organization in India

The bidder must have a proven record of maintaining and managing the system(s)

Bidders should include necessary document for establishing these

**Submission of Quotations**

The quotation should be submitted in Two-cover format – a Technical part and a Commercial part

**Technical Bid**

The technical bid should contain the following

Unpriced bill of material with quantities of each line item

Datasheet / pamphlets for product/model suggested

Complete list of all essential accessories (even those that might have been missed out in list of the specifications)

Proposed list of alternatives for any part of the instrument(s)

Customer references for the above

The technical bid should not contain any price information. Non-conformance  
will result in disqualification

**Commercial Bid**

The Commercial bid should contain details of the prices for each one of the subsystems of the total offer giving clearly the rate and the quantity. Avoid bundling of the prices.

Bidders proposing multiple options must quote for each of the configurations separately including the necessary data-centre requirement as self-contained bids and this is a mandatory requirement.

Covers containing the technical and commercial bids must be individually sealed, and superscribed, respectively, as “OrgChem/FT-IR/2016– Technical Bid” and “OrgChem//FT-IR/2016– Commercial Bid”. The two covers must be put in a larger enveloped, sealed, superscribed as “FT-IR OrgChem/FT-IR/2016”.

All the covers should bear the name and complete contact address of the bidder.

Non-conformance of any of the above can result in disqualification.

**Additional Guidelines**:  
1. The total solution as per the agreed bill of materials has to be supplied within 4 weeks after receiving a firm PO from IISc and the installation to be complete within a week after supply of the equipment.  
2. IISc is eligible for customs and excise duty exemption under notification 10/97-ce. Hence please quote the ED component, if any, separately so as to avail exemption on issue of certificate by us. Bidders planning to quote any imported solution have to give the offer in the respective currency.  
3. The offer has to clearly explicitly state the supply part, F & I, I & C, Warranty services and any other charges separately.  
4. A copy of the masked Commercial bid has to be given in the technical offer.  
5. Delayed and/or incomplete tenders are liable to rejection.  
6. The Technical Bid and the Commercial Bid should be duly signed by the authorized representative of the bidder.  
7. The Technical Bid and the Commercial Bid should be bound separately as complete volumes.  
8. No prices information should be mentioned in the Technical Bid.  
9. The Director, IISc, Bangalore-12 reserves the right to modify the technical specifications or the required quantity at any time.  
10. The Director, IISc reserves the right to accept or reject any proposal, in full or in part, without assigning any reason.  
11. The bidders are requested to go through the Terms and Conditions detailed in this document, before filling out the tender. Agreeing to the terms and conditions of the tender document (by signing all pages of the copy of a tender document) is a mandatory requirement.  
12. A tender, not complying with any of the above conditions is liable to rejection. Incomplete proposals are liable to be rejected.  
**Commercial Terms and Conditions**  
1. The commercial bid should contain among other things, payment terms, warranty, installation and commissioning charges. These charges will be paid only after successful supply, installation and acceptance.  
2. Prices may be quoted in US Dollars, IISc is eligible for custom duty exemption.  
3. Vendor may quote the prices for shipment on ‘FOB’ terms.  
4. Withholding tax, if applicable, will be deducted from the Sight Draft/ Letter of Credit  
5. In case of imports, the commercial bid should contain among other things the name and address of the Indian agent, if any and the agency commission payable to him. Agency commission part will be deducted from FOB value, and will be paid to him by us separately in equivalent Indian rupees.  
6. In respect of imported solution, IISc will arrange for customs clearance, at Bangalore airport, which will be final destination airport. Hence costs related to customs/clearance need not be included in the offer.  
7. In CIF offers of imported solutions, insurance should be on “Warehouse to Warehouse” basis and should not terminate at Bangalore airport.  
8. In case of rupee offer, the component of VAT/CST, E.D. and any other statutory levies if applicable should be shown separately and not included in the total amount, to enable us to avail exemption.  
9. Price should be quoted per unit and the total amount for the required quantity.  
10. Offer should be valid for 60 days from the date of submission.  
11. IISc will place the purchase order only on the successful bidder.  
**Payment Terms:**  
The conditions regarding payment terms are as follows:  
1. The total project cost will consist of two parts:  
a. Equipment supply part (Supply)  
b. Installation, commissioning, warranty and maintenance services part (shortly referred as services), if applicable.  
2. The total cost of the system (Supply part) will be paid through SIGHT DRAFT/Letter of Credit (documents through Bank).  
3. Installation charges, if any, payable only in Indian Rupees, will be paid after acceptance of the system. The procedure is as follows: On delivery complete inventory checks mandates confirmation of systems to have been delivered with the ordered configuration. Post this system will be installed and subjected to 48 hours of test. The test includes running of all components continuously for a period of 48 hours to eliminate possibility of any hard/software failures. The successful completion of the acceptance test results in payment.  
4. Warranty terms.  
a. Warranty services for the system supplied by the successful bidder should be valid for a period of 3 years from the date of acceptance of the equipment.  
b. During the warranty period, the bidder shall be fully responsible for the manufacturer’s warranty in respect of proper design, quality and workmanship of all the systems supplied.  
c. During the warranty period, the bidder shall attend to all the hardware  
problems on site and shall replace the defective parts at no extra cost to the purchaser.  
d. During the warranty period, the preventive maintenance and repairs of the  
components supplied by the bidder are the responsibilities of the bidder.

**Important Dates**:  
February 5, 2016: Enquiry letter sent to Vendors/ Advertised on IISc webpage  
Send bidder’s queries (if any) by email to [eprabhak@orgchem.iisc.ernet.in](mailto:eprabhak@orgchem.iisc.ernet.in), copied to [chairman@orgchem.iisc.ernet.in](mailto:chairman@orgchem.iisc.ernet.in)   
February 19, 2016: Last date for submission