



**National Institute of Technology Karnataka, Surathkal, Mangalore- 575025.**  
Department of Chemistry (Fourier Transform Infrared Spectroscopy {FTIR} Facility)  
Sophisticated Instrument Centre.

## **Fourier Transform Infrared Spectroscopy Facility @ Department of Chemistry**

Recently, Bruker (Alpha) **KBr/ATR** Fourier Transform Infrared Spectroscopy (**FTIR**) has been installed with following specifications under APF.

### **Specifications:**

375-7,500  $\text{cm}^{-1}$  with KBr Optics & 500-7500  $\text{cm}^{-1}$  with ZnSe Optics , High sensitivity DLATGS, room temperature, Automatic accessory recognition, Automatic performance test and Automatic setting of appropriate measurement parameters, KBr pellet holder, variety of liquid techniques and gas cells **ATR**: Diamond, ZnSe and Ge crystals, flow through cells, heated crystals plate Diffuse Available Measurement, Specular Reflection.

### **General Information:**

- NITK will not have any liability whatsoever arises out of using the analysis report.
- For each analysis, separately coded, labelled and properly packed sample in sufficient quantity should be submitted.
- Analysis report (soft / hard copy) will be given to the client. Please note that interpretation of the result, conclusion based on result, certificate, recommendation etc will not be provided with the analysis.
- Clients are not encouraged to remain present during the analysis, unless the nature of the analysis is such that client's inputs are required during carrying out of the analysis. In such cases a prior appointment must be fixed with the concerned faculty.
- Based on the type of analytical work, intellectual inputs for interpretation of data or development of analytical methods can be provided. For this service, prior discussion with the concern faculty and payment of analysis charge is necessary before starting the work.

### **Address for submitting samples and analysis charges:**

**The Head,  
Department of Chemistry,  
National Institute of Technology Karnataka (NITK),  
Srinivasnagar, Surathkal, 575 025  
KARNATAKA, INDIA**

**CHARGES:** For NITK Students: No charges (only 5 samples at a time). Other Academic Institutions: Rs.100/-per sample (**KBr pellet**) , Rs. 150/- per sample ( **ATR**). Industry: Rs. 400/- for **KBr pellet**, Rs.600/- for **ATR**.



## Fourier Transform Infrared Spectroscopy Analysis Charges

### For Internal Users (NITK)

No Charges: Maximum 5 samples

### Academic Institutions

- |               |                           |
|---------------|---------------------------|
| 1. KBr pellet | <b>Rs. 100 per sample</b> |
| 2. ATR        | <b>Rs. 150 per sample</b> |

### Industry/ R & D laboratory

- |               |                           |
|---------------|---------------------------|
| 1. KBr pellet | <b>Rs. 400 per sample</b> |
| 2. ATR        | <b>Rs. 600 per sample</b> |

### Note:

1. Above charges are **exclusive** of Service Tax and Education Cess as per government of India rule.
2. **Service Tax and Education Cess as per government of India rule (at present 14 % of the total bill amount) is payable along with the analysis charge.**
3. Submit separate application form for each crystal.
4. Kindly send the analysis charges including taxes in the form of **Demand Draft** in favour of **THE DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL, Payable at SURATHKAL** along with the sample and request form.



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## Sample Submission Form

**User Details**

Date:

Name of the Student		<b>Billing Address:</b> ..... ..... ..... ..... .....
Name of the Guide		
Department		
Institute/University/College /Industry		
Tel. No./Mobile No.		
e-mail		

### Sample Information

**Sample Code:**.....

**Colour:**.....

**mp:**..... °C

**Sample form:**.....

KBr pellet:

ATR:

**Signature of the Student**

**Signature of the HOD/Research Supervisor**

.....  
**For Office Use Only**

**Payment Details:**

DD No.:.....

Bank :.....

Amount:.....

Date and Time of data collection:.....

Final R-factor:.....

**Coordinator's Signature**

**Date:**

**Time:**

Sign of operator:.....

Remarks.....

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