

Single Crystal X-ray Diffractometer (SCXRD) Facility : National Institute of Technology (NIT) Kurukshetra, Haryana



The aim of the facility is to provide single crystal X-ray diffraction analysis for determining crystal structures of molecular and supramolecular structures of various samples and also, to train our students on chemical crystallography. The facility is equipped with a state-of-the-art Bruker D8 Quest eco diffractometer system. It consists of microfocus X-ray source ($\text{Mo K}\alpha$), radiation safety enclosure and a video camera. Only room temperature data collection is installed. The entire system is automated and controlled by a computer.

National Institute of Technology-Kurukshetra
Department of Chemistry, Kurukshetra – 136119

For Internal Users	
Consumable Charges	Extra
Other Academic Institutions	
Only Unit Cell determination at room temperature	Rs. 500 per sample
Complete Data collection at room temperature	Rs. 2000 per sample
Industry/ R & D Laboratory	
Only Unit Cell determination at room temperature	Rs. 1000 per sample
Complete Data collection at room temperature	Rs. 3000 per sample

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Note:

1. Above charges are **exclusive** of GST as per government of India rule.
2. GST as per government of India rule (at present 18.00% of the total bill amount) is payable along with the analysis charges.
3. Submit separate application form for each crystal along with DVD for data. Data will be stored for maximum 15 days in the Instrument room.
4. Kindly send the analysis charges including taxes in the form of **Demand Draft** in favour of **DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA** or through **NEFT** (given in request form) along with the sample and request form.

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REQUISITION FORM FOR SINGLE CRYSTAL X-RAY DATA COLLECTION

User Information

Date:

*Name :
*Designation :
*Affiliation :

*Address for communication :

*Department/School/Centre :
*Bill to be addressed to :

*Phone Number :
*E-mail Address :
* Transaction details :

Certified that the sample submitted belong to the user mentioned above. I agree to acknowledge the usage of the facility in all publications arising out of the usage of the NIT-Kurukshetra single crystal X-ray facility.

Signature with date and Seal
(Director/Principal/HOD/Supervisor)

structure

Sample Information

*Sample Code :
*Molecular formula (if known) /probable atoms :
*Sensitive to moisture, light, heat etc. :
*Service Required (Please Tick) : Unit Cell Determination or Data Collection
(Submit DVD for copying data)

*Any Other Information :
(Probable structure/ Solvent used/ reaction
scheme)

Columns marked * must be filled to ensure quick processing of samples. Reports will be released only after payment is received. Charge(s) for the measurement(s) can be paid through NEFT to the Project Account, A/c No. 10116885885 of State Bank of India, NIT-Kurukshetra Branch (IFS Code: SBIN0006260). Payment also can be paid directly to the Account Section of the NIT-Kurukshetra filling requisite challan available at website. Sample along with bank slip/challan should be sent / submitted to the In-Charge or Operator of SCXRD, Department of Chemistry, NIT-Kurukshetra, Kurukshetra-136119, Haryana.

Office use only

Ref. No.

Date:

Verified by:

Data Collection Date:

Signature of the Operator: