

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
FDXM -IRCC Four Dimensional X-ray Microscopy (FDXM) Central Facility

E mail: fdxm.saif@iitb.ac.in

Registration Process:

I) Internal Users:

Users within IIT Bombay can apply from <http://drona.ircc.iitb.ac.in>. The form should be completely filled up and all the sample details must be provided in the requisition form. Users need to be present at the time of analysis on the allotted appointment date/time. If a user wishes to change his/her time slot, an email should be sent immediately to fdxm.saif@iitb.ac.in requesting change in appointment II) External Users:

- Academic Institutions: You can come in-person or send a letter from the Guide/ HoD on the Institution's Original Letter Head (stating that the analysis is for research purpose, to qualify for academic concession) along with the attached Sample Requisition form and Non-dangerous Material undertaking Form. The letter should be addressed to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF, IIT Bombay, Powai, Mumbai-400076.
- Government R&D Labs: You can come in-person or send a letter signed by an authorized signatory of your Institution on Original Letter Head (stating that the analysis is for research purpose) along with the attached Sample Requisition form and Non-dangerous Material undertaking Form. The letter should be addressed to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF, IIT Bombay, Powai, Mumbai-400076.
- Industry & Non- Government Agencies: You can come in-person or send a letter signed by an authorized signatory of your Organization, along with the attached Sample Requisition form and Non-dangerous Material undertaking Form. The letter should be addressed to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF, IIT Bombay, Powai, Mumbai-400076.

You are requested to mention in your request letter that "We agree to acknowledge the FDXMIRCC FDXM Central Facility of IIT Bombay, when the data from the FDXM lab are used in our papers/reports/thesis or any other publication in the public domain".

The information on such acknowledgements with appropriate reference should be communicated to FDXM lab vide email fdxm.saif@iitb.ac.in. Kindly send the complete publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc.)

Charges for External Users:

Description	Academic		National R & D Lab		Industry/Non Govt.Agencies	
	Unit price per hour (INR)	GST (as applicable) Currently 18% (INR)	Unit price per hour (INR)	GST (as applicable) Currently 18% (INR)	Unit price per hour (INR)	GST (as applicable) Currently 18% (INR)
Non-destructive interior imaging of the sample using Four Dimensional X-ray Microscopy(FDXM)	1500	270	4000	720	6000	1080

- Payment should be made in advance by a Demand Draft (DD) drawn in favour of "The Registrar, IIT Bombay, P and C Account". The same should be sent to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF, IIT Bombay, Powai, Mumbai - 400076, along with the Request Letter and Registration Form.
- Appointment: The users will be informed about their date and time-slot by email. If the day and time-slot is not suitable for you, an email request should be sent immediately for an alternate slot.
- Time frame for providing the experimental data depends on the availability of the machines and various external factors.
- The scan time is dependent on the sample type, physical dimensions, magnification, type of tomography and other factors.
- Sample Submission: Samples are to be brought in-person on the date of your appointment for analysis or it can be couriered to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF, IIT Bombay, Powai, Mumbai - 400076, along with the Request Letter and Sample Requisition form and Nondangerous Material undertaking Form.
- Results: Since very large volume (several GBs) of experimental data is produced, the data would be provided on an external hard drive which needs to be provided along with the samples.
- Return shipping charges need to be paid, if the samples need to be returned to the originator after testing. A charge of Rs.1500 per sample will be levied per sample for shipping and handling.
- We are not responsible if the samples or external hard drives are damaged in transit.
- The attached FDXM Requisition Form should be completed and signed by competent authority prior to sending the samples. Please provide a hard copy

along with the samples and also provide a soft copy by email to fdxm.saif@iitb.ac.in.

- The samples should not be hazardous, chemically or physically unstable or reactive when exposed to X-rays or during handle. The samples should conform to the attached form and be provided along with a duly signed Nondangerous material undertaking Form.
- The samples along with Demand Draft, external hard drives, Sample Requisition Form and Non-Dangerous Material Undertaking Form should be couriered to Prof. Asim Tewari, Convener, Central FDXM Facility, SAIF , IIT Bombay, Powai, Mumbai-400076.

GENERAL INSTRUCTIONS TO THE USERS

1. The experimental data provided is only for research / development purposes. These cannot be used as certificates in legal disputes.
2. Only one sample will be analyzed against a single Registration Form.
3. MSDS (Material Safety Data Sheet) should be given along with samples to ensure that the samples are not toxic or hazardous. Samples will not be accepted unless accompanied by MSDS.
4. Please mention if the samples need to be returned to the originator after testing.
5. Test data would be returned on an external hard drive which needs to be provided along with the samples.
6. The experimental data will be provided in the form of a stack of TIFF files and does not do any further analyses or interpretation of the data.
7. The experimental data would only be stored at our facility for only 90 days after returning the hard drives.

