Indian Institute of Technology Jammu

सप्तर्षि: बहु-आयामी अनुसंधान केंद्र

Central Instrumentation Facility (CIF)

Instrumental Usage Charges for Internal & External Users					
Sl. No.	**Name of Equipment**	**Internal users** (Student/Research Scholar/ Faculty/Scientist)	**Educational Institutes/Universities** (Student/ Research Scholar/Faculty/Scientist)	**Govt. R&D Labs / CSIR Labs**(Student/ Research Scholar/Faculty/Scientist)	**Industry (Plus 20% for Consultancy Projects)**
1	**HR TEM#** **1)** TEM imaging(UPTO 100K MAG) **2)** TEM+ HRTEM **3)** HRTEM+SAED **4)** HRTEM+EDS(Spectrum)* **5)** HRTEM+EDS(Spectrum)* +SAED **6)** HRTEM+SAED +EDS(Spectrum)* +MAPPING* + STEM-HAADF imaging/ BF **7)** EELS(SPECTRUM)* **8)** EELS (SPECTRUM+ MAPPING)* * (Per scan) # (Extra charges should be applied for sample preparation)	1. Rs. 950/- per sample 2. Rs. 1050/- per sample 3. Rs. 1250/- per sample 4. Rs. 1250/- per sample 5. Rs. 1500/- per sample 6. Rs. 2000/- per sample 7. Rs. 1500/- per sample 8. Rs. 2500/- per sample	1. Rs. 2250/- per sample 2. Rs. 2500/- per sample 3. Rs. 3000/- per sample 4. Rs. 3000/- per sample 5. Rs. 3500/- per sample 6. Rs. 6000/- per sample 7. Rs. 5000/- per sample 8. Rs. 7000/- per sample	1. Rs. 4000 per sample 2. Rs. 4500 per sample 3. Rs. 5000 per sample 4. Rs. 5000 per sample 5. Rs. 6000 per sample 6. Rs. 8000 per sample 7. Rs. 7000 per sample 8. Rs. 8500 per sample	1. Rs. 6000 per sample 2. Rs. 6500 per sample 3. Rs. 7000 per sample 4. Rs. 7000 per sample 5. Rs. 8000 per sample 6. Rs. 10000 per sample 7. Rs. 9000 per sample 8. Rs. 11000 per sample
2	**FE-SEM** 1. FESEM Image (SE Mode) 2. FESEM Image(SE+BSE/UED) 3. FESEM Image +EDS/WDS 4. FESEM Image +EDS +Mapping. 5. EBSD* (Three Hours Scan)	1. Rs. 300 per Sample 2. Rs. 600 per Sample 3. Rs. 900 per Sample 4. Rs. 900 per sample 5. Rs. 1250 per Sample	1. Rs. 600 per Sample 2. Rs. 1200 per Sample 3. Rs. 1200 per Sample 4. Rs. 1800 per Sample 5. Rs. 2500 per sample	1. Rs. 1200 per Sample 2. Rs. 2400 per Sample 3. Rs. 2400 per Sample 4. Rs. 3000 per sample 5. Rs. 4000 per Sample	1. Rs. 2400 per Sample 2. Rs. 4000 per Sample 3. Rs. 4000 per Sample 4. Rs. 5000 per sample 5. Rs. 6000 per Sample

3.	**PXRD** 1. General PXRD/GAXRD 2. XRR 3. SAXS 4. Stress	1. Rs. 200 per Sample 2. Rs. 250 per Sample 3. Rs. 300 per Sample 4. Rs. 300 per Sample	1. Rs. 400 per Sample 2. Rs. 500 per Sample 3. Rs. 600 per Sample 4. Rs. 600 per Sample	1. Rs. 600 per Sample 2. Rs. 700 per Sample 3. Rs. 800 per Sample 4. Rs. 800 per Sample	1. Rs. 800 per Sample 2. Rs. 900 per Sample 3. Rs. 1000 per Sample 4. Rs. 1000 per Sample
4.	**SINGLE CRYSTAL XRD** 1. Cell Parameters 2. Data Collection at room temp. 3. Data collection at low temp. 4. Only for data reduction	1. Rs.100 per Sample 2. Rs. 300 per Sample 3. Rs. 400 per Sample 4. NA	1. Rs.300 per Sample 2. Rs. 1200 per Sample 3. Rs. 1800 per sample 4. Rs. 1000 per sample	1. Rs.500 per Sample 2. Rs. 2000 per Sample 3. Rs. 2500 per Sample 4. Rs. 2000 per sample	1. Rs.800 per Sample 2. Rs. 3500 per Sample 3. Rs. 4500 per Sample 4. Rs. 4000 per sample
5.	**FTIR**	Rs. 150/- Per Sample **(in KBr)** Rs. 100/- Per Sample **(ATR)**	Rs. 300/- Per Sample **(in KBr)** Rs. 300/- Per Sample **(ATR)**	Rs. 500/- per Sample **(in KBr)** Rs. 500/- Per Sample **(ATR)**	Rs. 1200 per Sample **(in KBr)** Rs. 1200 per Sample **(ATR)**
6.	**XPS**	Rs. 600 per Sample	Rs. 1200 per Sample	Rs. 2000 per Sample	Rs.3000 per Sample
7.	**HRMS**	Rs. 200 per Sample	Rs. 400 per Sample	Rs. 800 per Sample	Rs. 1600 per Sample
8.	**FT-NMR (Solution State)** 1. ^{1}H, ^{19}F, ^{31}P, ^{27} 2. ^{13}C 3. DEPT *If IIT Jammu is needed to provide deuterated solvent extra charge of Rs. 100 will be added	1. Rs. 100 per Sample 2. Rs. 150 per Sample 3. Rs. 150 per Sample	1. Rs. 200 per Sample 2. Rs. 300 per Sample 3. Rs. 300 per Sample	1. Rs. 400 per Sample 2. Rs. 600 per Sample 3. Rs. 600 per Sample	1. Rs. 800 per Sample 2. Rs. 1200 per Sample 3. Rs. 1200 per Sample
9.	**UV-VIS-NIR spectrometer** **1.liquid sample** **2. powder sample**	1.Rs. 100/- per Spectrum 2.Rs. 400/- per Spectrum	1.Rs. 200/- per Spectrum 2.Rs. 600/- per Spectrum	1.Rs. 400/- per Spectrum 2.Rs. 1200/- per Spectrum	1.Rs. 800/- per Spectrum 2.Rs. 2400/- per Spectrum
10.	**CHNSO ANALYSER** **1. CHNS/ CHNSO**	1. Rs. 200 per Sample	1. Rs. 400 per Sample	1. Rs 800 per Sample	1. Rs. 1200 per Sample

11.	**EPRS** 1. Data at Room Temperature 2. Data at Low Temperature	Rs.200/- per Sample Rs.250/- per Sample	Rs.400/- per Sample Rs.500/- per Sample	Rs.800/- per Sample Rs.1000/- per Sample	Rs.1600/- per Sample Rs.2000/- per Sample
12.	**Liquid Nitrogen (in user's Dewar)**	Rs. 20 per Liter	Rs. 100 per Liter	Rs. 150 per Liter	Rs. 250 Liter
13.	**Atomic Force Microscopy (AFM)** **1. Contact Mode** **2. Tapping Mode** **3. Imaging + Force Curve** ***Note: For Conductive, Magnetic, STM etc cantilever cost will apply in addition to above mentioned charges.***	1. Rs. 750/- per Sample 2. Rs 500/- per Sample 3. Rs.750/- per Sample	1. Rs 1500/- per Sample 2. Rs 1000/- per Sample 3. Rs.1500/- per Sample	1. Rs 3000/- per Sample 2. Rs 2000/- per Sample 3. Rs 3000/- per Sample	1. Rs 6000/- per Sample 2. Rs 4000/- per Sample 3. Rs 6000/- per Sample
IIT Jammu reserves the right to accept/reject any sample/samples without assigning any reasons. The best possible characterization results will be provided and it depends on the sample quality. No further communication is entertained to satisfy the users. **website**: https://iitjammu.ac.in/cif **Email**: cif@iitjammu.ac.in					

N.B.: 1. For bulk sample measurement (at a time more than 15 samples), 15% discount should be applicable. Please contact to the concerned authority via email (cif@iitjammu.ac.in) prior to the booking your slot.

2. Experiment should be performed within approximately 10 days (as per sample queue at that time) after receiving the sample.

Sample Sending Address:

1. **Head**, CIF, Indian Institute of Technology Jammu, Paloura campus, Opposite to Janipur Police Station, Paloura, Jammu. Jammu and Kashmir, Pincode-181121.
2. **Officer In-Charge**, CIF, Indian Institute of Technology Jammu, Paloura campus, Opposite to Janipur Police Station, Paloura, Jammu. Jammu andKashmir, Pincode-181121.

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General Terms and Conditions for sample slot booking for analysis

1. Official Requests should be submitted for the test/study of the samples, each time the samples are to be sent.
2. Samples should be sent only after completing "Online Booking" of time-slot, in envelope with the facility name and study to be carried out written clearly on the envelope.
3. Payment should be made only via online mode in advance and Receipt having transaction ID should be enclosed with the samples sent.
4. The expected time of results on account of downtime of instruments due to any technical reasons. In case of such delays there will be no financial implications on IIT Jammu.
5. Samples without payment receipt will not be run/ analyzed.
6. IIT Jammu will not send samples back after sample run/analysis through post. The samples will be disposed off as per the instructions without any notice.
7. Please provide an active email id and contact number.
8. IIT Jammu reserves the right to accept /reject the samples received. Money will be refunded for samples not run/analyzed.
9. Analytical data/spectra will be provided either in printed or digital format as applicable. Data will be archived for 30 days from date of acquisition and will not be available to the user after that period.
10. Analytical data/spectra are provided only for research purposes. These data/spectra cannot be used as certificates in legal

disputes.

11. The radioactive and explosive material samples should be clearly mentioned (with certification of use/users from authorized agency) and handed over personally.
12. Outside users have to pay GST as applicable.
13. ***Payment must be completed before the measurement. Before making payment, kindly clear all queries about sample from the corresponding associated person(s) of that equipment.***

Sample Preparation charges for HRTEM and FESEM

#TEM Sample Preparation Charges: CIF IIT Jammu

Instrument/Equipment	**Charges Slot Category**	**Internal (in INR)**	**Educational Institutes/Universities (Student/ Faculty/Scientist) (in INR)**	**Govt. R&D Labs / CSIR Labs (Student/ Faculty/Scientist) (in INR)**	**Industry & Consultancy Projects (in INR)**
Ion Milling (PIPS)	Per sample/Three Hours	1000	2000	4000	6000
Ultra-Sonic Disk Cutter	Per sample	100	400	800	1600
Dimpling Grinder	Per sample/Two Hours	200	600	1200	2400
Grinder or Polisher	One Hour/ One Sample	50	100	200	400
Low Speed Diamond Saw	One Hour	50	100	200	400
Twin-Jet Electropolishing	Up to 3 Sample (at Room Temp.)	100	200	400	800

Twin-Jet Electropolishing	Up to 3 Sample (at CRYO Temp.)	150	300	600	1200
Plasma Cleaner	----	100	200	400	800
X-TEM Prep Kit	Per Sample	250	500	1000	2000
Disc Puncher	Up to 5 Sample	50	100	200	400

***** All the rates are subject to revision every year**

These are only user charges on the instrument and do not include analysis part. On user's demand, data analysis/interpretation could be provided on payment of extra charges on case to case basis.

TEM Grid Specifications	**Per Unit Grid Prices (INR)**
FORMVAR/CARBON, 300 CU	500.00
FORMVAR W/CARBON, 200M CU	500.00
FORMVAR W/C CARBON, 200 CU	500.00
CARBON TYPE B ON 200M CU	500.00
CARBON SUBST B 300M CU	500.00
ULTRATHIN CA/HOLEY C 300M AU	500.00
PELCO GRIDS 200 CU	500.00
PELCO GRIDS 300 MESH CU	500.00
PELCO MICA DISC 10MM, V1	500.00

Facility in-charge For Saptarshi Labs

SL No	Equipment	1st Faculty in Charge	2nd Faculty in Charge	Technical staff
1	Nuclear Magnetic Resonance (NMR) Spectrometer	Dr. Guru B Ramani	Dr. Amlan K Pal	Mr. M Aadil
2	UV-VIS-NIR Spectrophotometer	Dr. Vinay Sharma	Dr. Ashok Bera	Mr. Ravi Kumar
3	Single Crystal X-ray Diffractometer (SCXRD)	Dr. Amlan K Pal	Dr. Gaurav A Bhaduri	Dr Manas Khatua / Mr. M Aadil
4	Elemental-analyser	Dr. Pratik Kumar	Dr. Pankaj Chauhan	Mr. Ravi Kumar
5	Photo-diode Array UV-VIS Spectrophotometer	Dr. Vinay Sharma	Dr. Subhas Samanta	NA
6	High Resolution Mass Spectrometer (HRMS)	Dr. Pankaj Chauhan	Dr. Subhas Samanta	Mr. M Aadil / Mr. Akhil Gupta
7	X-ray Photo-electron Spectroscopy (XPS)	Dr. Rahul Salunkhe	Dr. Srinivasan N	Mr. Ravi Kumar/ Mr. Suman Sarkar
8	Powder X-ray Diffractometer (PXRD)	Dr. Jayaramulu Kolleboyina	Dr. Anand Kumar Subramanian	Mr. Shivprakash Solanki/ Dr Manas Khatua
9	Fourier Transform Infra-red Spectroscopy (FTIR)	Ankit Tyagi	Rahul Salunkhe	Mr. Ravi Kumar
10	Field Emission Scanning Electron Microscope (FE-SEM)	Dr. Suman Sarkar	Dr. Ankit Tyagi	Dr Manas Khatua / Mr. Suman Sarkar
11	High Resolution Transmission Electron Microscope (HRTEM)	Dr. Suman Sarkar	Dr. Shantanu Madge	Mr. Suman Sarkar
12	Electron Paramagnetic Resonance (EPR) spectrometer	Dr. Subhas Samanta	Dr. Jayaramulu Kolleboyina	Dr Manas Khatua
13	Liquid Nitrogen Plant (LN2 Plant)	Dr. Amlan Kumar Pal	Dr. Guru B Ramani	All staff
14	AFM	Dr. Shiva S	Dr. Biswanath C	Mr. M Aadil
15	DSC/DTA/TGA/Thermal Conductivity	Rani Rohini	Suman Sarkar	NA
16	Raman Spectroscopy	Kankat Ghosh	Biswanath Chakraborty	NA