

**ADVANCED INSTRUMENTATION RESEARCH FACILITY  
USER CHARGES**

<b>Equipment</b>	<b>JNU</b>	<b>Academic &amp; Research Institutions / IITs/IISERs/Univ.</b>	<b>Private Industries / For - Profit Laboratories</b>
<b>Transmission Electron Microscope (TEM)</b>	Bio. Sample Prep. Rs. 1000	Bio. Sample Prep. Rs. 2500	Bio. Sample Prep. 5000
	Negative Staining Rs. 600	Negative Staining Rs. 1000	Negative Staining Rs. 2000
	TEM Viewing Rs. 600	TEM Viewing Rs. 1800	TEM Viewing Rs. 3500
	TEM Viewing & EDX Rs. 850	TEM Viewing & EDX Rs. 2500	TEM Viewing & EDX Rs. 6000
	TEM Viewing & EDX Mapping Rs. 1200	TEM Viewing & EDX Mapping Rs. 3600	TEM Viewing & EDX Mapping Rs. 7500
<b>Scanning Electron Microscope (SEM)</b>	Coating Rs. 250	Coating Rs. 500	Coating Rs. 650
	Bio. Sample Prep. Rs. 400	Bio. Sample Prep. Rs. 1000	Bio. Sample Prep. Rs. 2500
	<b><u>High Vacuum Mode :</u></b>		
	SEM Viewing Rs. 250	SEM Viewing Rs. 700	SEM Viewing Rs. 2200
	SEM Viewing & EDX Rs. 500	SEM Viewing & EDX Rs. 1500	SEM Viewing & EDX Rs. 1500
	Multipoint Rs. 800	Multipoint Rs. 2000	Multipoint Rs. 4000
SEM Viewing & EDX Mapping Rs. 850	SEM Viewing & EDX Mapping Rs. 2000	SEM Viewing & EDX Mapping Rs. 3600	
<b><u>Low Vacuum Mode :</u></b>			
Viewing Rs. 500	Viewing Rs. 1000	Viewing Rs. 3000	

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<b>Confocal Microscope</b>	FRET and FRAP Rs. 450 per hour	FRET and FRAP Rs. 3000 per hour	FRET and FRAP Rs. 6000 per hour
<b>Time Resolved Fluorescence Spectrometer (TRFS)</b>	Rs. 250 per hour or 1500 per day	Rs. 500 per hour or 3000 per day	Rs. 1000 per hour or Rs. 6000 per day
<b>Liquid Nitrogen (LN2)</b>	Rs. 50 per litre	Rs. 100 per litre	Rs. 150 per litre
<b>FTIR</b>	Rs. 350/-	Rs.800/-	Rs. 1600/-
<b>FTIR with peltier attachment</b>	Rs. 500/-	Rs. 1000/-	Rs. 1500/-
<b>X-Ray Diffraction System for Powder-Thin Films with low temp. XRD at Variable temprature</b>	Rs. 300 per sample  Rs. 600 + per scan at different different tempratures Rs. 300	Rs. 800 per sample  Rs. 1000 + per scan at different tempratures Rs. 400	Rs. 1200 per sample  Rs. 2000+ per scan at tempratures Rs. 500
<b>Remarks:</b>	1. Sample should be crushed and brought in powder form 2. Maximum of one requisition form per user will be accepted in one single day. Subsequent requisition form of same user will be accepted for booking and analysis only after all other user booked for the day have finished their analysis. 3. The maximum time for analysis of one sample is one hour. After every one hour, the same sample would be treated as new sample and charged accordingly.		

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<b>EDXRF</b>	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 550 per sample ii) Aerosol Filters: Rs. 550 per sample B) In Helium Mode: i) Loose Form: Rs. 660 per sample ii) Liquid Samples: Rs. 660 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 550 per sample Charges for Trace Level per element: Rs. 15 (Min. Charges Rs.550 per sample) In Helium Mode: Charges per element with standard: Rs. 20 (Minimum Charges Rs. 110 per sample) Total Charges: Number of Samples * Charges for a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 1100 per sample ii) Aerosol Filters: Rs. 1100 per sample B) In Helium Mode: i) Loose Form: Rs. 1100 per sample ii) Liquid Samples: Rs. 1100 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 1100 Charges for Trace Level per element: Rs. 33 (Minimum Charges Rs.1100 per sample) In Helium Mode: Charges per element with standard: Rs. 40 (Minimum Charges Rs. 220 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 2200 per sample ii) Aerosol Filters: Rs. 1650 per sample B) In Helium Mode: i) Loose Form: Rs. 2200 per sample ii) Liquid Samples: Rs. 2200 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 2200 Charges for Trace Level per element: Rs. 50 (Min. Charges Rs. 2200/- per sample) In Helium Mode: Charges per element with standard: Rs. 60 (Minimum Charges Rs. 330 per sample) Total Charges: Number of Samples * Charges for Elements in a sample
<b>WDXRF</b>	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 440 per sample In Vacuum Mode: 10 Major oxides Elements with standards: Rs. 440 Charges for Trace Level per element: Rs. 15 (Minimum Charges Rs. 440 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 1100 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 1100 Charges for Trace Level per element: Rs. 30 (Minimum Charges Rs. 1100 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 2200 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 2200 Charges for Trace Level per element: Rs. 50 (Minimum Charges Rs. 2200 per sample) Total Charges: Number of Samples * Charges for Elements in a sample

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Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
<b>Protein Crystallization Lab. For XRD</b>	Rs. 350 per sample Consumable: Rs. 240 Plate Rs. 170	Rs. 550 per sample Consumables: Rs. 440 Plate Rs. 330	Rs. 1100 per sample Consumables: Rs. 1100 Plate Rs. 550
<b>X-Ray Diffractometer (XRD) for Macromolecules &amp; Proteins</b>	Rs. 770 per samples	Rs. 2200 per sample	Rs. 3300 per sample
<b>Gas Chromatograph Mass Spectrometer (GCMS) Multivapour</b>	GC Rs. 520 GCMS Rs. 840 Rs. 50	GC Rs. 840 GCMS Rs. 1570 Rs. 100	GC Rs. 1570 GCMS Rs. 4520 Rs. 160
<b>GCMS/MS</b>	Rs. 2100	Rs. 5250	Rs.10500
<b>500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer with solid state attachment (CPMAS)</b>	a) <sup>1</sup> H NMR Rs. 220 b) <sup>13</sup> C and other nuclei Rs. 270 c) 2D expmnt Rs. 550 e) Solid-state experiment: i) <sup>1</sup> H NMR Rs. 550 ii) <sup>13</sup> C NMR or Other Nuclei: Rs. 660 f) Variable Temperature: i) High Temp. Rs.160 ii) Low Temp. Rs. 270 Charges to be added with experiments a/b/c/d/e g) Additional Deuterated Solvent Charges: D <sub>2</sub> O/CDCl <sub>3</sub> , DMSO-d <sub>6</sub> Rs. 110	a) <sup>1</sup> H NMR Rs. 440 b) <sup>13</sup> C and other nuclei Rs. 600 c) 2D experiment Rs. 1210 e) Solid-state experiment: i) <sup>1</sup> H NMR Rs. 2200 ii) <sup>13</sup> C NMR or Other Nuclei: Rs. 3960 f) Variable Temperature: i) High Temp. Rs. 330 ii) Low Temp. Rs. not available for external users g) Additional Deuterated Solvent Charges: D <sub>2</sub> O/CDCl <sub>3</sub> , DMSO-d <sub>6</sub> Rs. 160 per sample	a) <sup>1</sup> H NMR Rs. 880 b) <sup>13</sup> C and other nuclei Rs. 1430 C) 2D experiment Rs. 2750 e) Solid-state experiment: i) <sup>1</sup> H NMR Rs. 8250 ii) <sup>13</sup> C NMR or Other Nuclei: Rs. 11550 f) Variable Temperature: i) High Temp. Rs. 550 ii) Low Temp. Rs. not available for external users g) Additional Deuterated Solvent Charges: D <sub>2</sub> O/CDCl <sub>3</sub> , DMSO-d <sub>6</sub> Rs. 490 per sample

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<b>Surface Plasmon Resonance (SPR) Spectrometer</b>	Rs. 720 per day SPR bare gold discs: Rs. 3600 Chemicals and other consumables: Rs. 600 per experiment Vacuum filter assembly Rs. 2400	Rs. 1440 per day SPR bare gold discs: Rs. 4800 Chemicals and other consumables: Rs. 1200 per experiment Vacuum filter assembly Rs. 2400	Rs. 3600 per day SPR bare gold discs: Rs. 4800 Chemicals and other consumables: Rs. 1800 per experiment Vacuum filter assembly Rs. 2400
<b>Galvanostat-Potentiostat for electrochemical measurements</b>	Rs.120 for each sample/analysis  Consumables: Rs.300	Rs. 120 for each sample/analysis  Consumables:Rs.600	Rs.600/- for each sample/analysis  Consumables: Rs. 1200
<b>Mass Spectrometry</b>	MALDI based analysis 1. Intact Mass / MW Determination: Rs. 260 2. Peptide Mass Fingerprinting (PMF):Rs.420 3. MS/MS Protein Id:Rs.630 4. LC-Maldi (Protein Id/PTMs):Rs.1260 5. iTRAQ analysis:Rs-12,600 6. MS/MS analysis (perPrecursorion): Rs.260 LC-ESI-MS/MS based analysis 1. InactMass/MW determ:Rs.420 2. UPLC-MS/MS analysis(Qualitative): Rs. 630 3. UPLC-MS/MS analysis (Qualitative): Rs.2620 4. MS/MS analysis per Rs. 310 5. RP/RP 2D-nano LC-MS/MS:Rs.2100 OffGel Fractionator Rs.1050 per sample Bio Analyzer Rs.1570 per chip (12 sample)	MALDI based analysis 1. Intact Mass / MW Determination: Rs.630 2. Peptide Mass Fingerprinting (PMF):Rs.1050 3. MS/MS Protein Id:Rs 1570 4. LC-Maldi (Protein Id/PTMs):Rs.5250 5. iTRAQ analysis:Rs-52,500 6. MS/Ms analysis per Precursorion):Rs.520 LC-ESI-MS/MS 1. InactMass/MW determination:Rs.840 2. UPLC-MS/MS analysis(Qualitative):Rs.2100 3. UPLC-MS/MS analysis(perPrecursorion):Rs.5250 4. MS/MS analysis(per Precursorion):Rs.630 5. RP/RP 2D-nano LC-MS/MS:Rs.4200 OffGel Fractionator Rs.2100 per sample Bio Analyzer Rs.3150 per chip (12 sample)	MALDI based analysis 1. Intact Mass / MW Determination: Rs.1570 2. Peptide Mass Fingerprinting (PMF):Rs.2625 3. MS/MS Protein Id:Rs 3670 4. LC-Maldi (Protein Id/PTMs):Rs.7350 5. iTRAQ analysis: Rs 2.625 lac 6. MS/Ms analysis(per Precursorion):Rs.1570 LC-ESI-MS/MS 1. InactMass/MW determination:Rs.1570 2. UPLC-MS/MS analysis(Qualitative): Rs.4200 3. UPLC-MS/MS analysis(perPrecursorion): Rs.10500 4. MS/MS analysis(per Precursorion):Rs.1575 5. RP/RP 2D-nano LC-MS/MS:Rs.10500 OffGel Fractionator Rs.3150 per sample Bio Analyzer Rs.4720 per chip (12 sample)

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<b>Femtosecond Laser Facility (Fluorescence Up-conversion)</b>	Rs. 1310 per day or Rs. 260 per hour	Rs. 1970 per day or Rs. 390 per hour	Rs. 3940 per day
<b>Circular Dichroism Spectrometer</b>	Rs. 240 per hour	Rs. 840 per hour	Rs. 3000 per hour
<b>Stop Flow</b>	Rs. 120 per sample	Rs. 600 per sample	Rs. 1200 per sample
<b>Flow Cytometer</b>	Rs. 700/- Per hour	Rs. 1150/- per hour	Rs. 2200/- per hour
<b>Quartz Crystal Microbalance</b>	Rs. 110 for each sample Quartz crystal Ti/Au: Rs. 4620 Consumables: Rs. 270 per day	Rs. 220 for each sample Quartz crystal Ti/Au: Rs. 4620 Consumables: Rs. 600 per day	Rs. 110 for each sample Quartz crystal Ti/Au: Rs. 4620 Consumables: Rs. 1100 per day
<b>Physical Property Measurement System (PPMS)</b>	Rs. 1470 per day or Rs. 180 per hour	Rs. 2940 per day or Rs. 370 per hour	Rs. 7350 per day
<b>Live Cell Confocal Microscope</b>	Rs. 790 per hour and beyond 6 hrs. Rs. 630 per hour	Rs. 3670 per hour TIRF	Rs. 5250 per hour TIRF
<b>TIRF</b>	Rs. 470 per hour	Rs. 2100 per hour	Rs. 4200 per hour
<b>Bio Station</b>	Rs. 470 per hour	Rs. 2100 per hour	Rs. 4200 per hour
<b>Nikon Confocal</b>	Rs. 420 per hour	Rs. 2620 per hour	Rs. 6300 per hour

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<b>Electron Paramagnetic Resonance Spectroscopy with low temperature measurement setup</b>	Rs. 210 per sample or 370 per hour	Rs. 630 per sample	Rs. 1150 per sample
<b>EPR at different tempratures</b>	Rs. 630 per sample or per scan at different temperature Rs. 210	Rs. 2100 per sample or per scan at different tempratures Rs. 520	Rs. 5250 per sample or per scan at different temprature Rs. 1050
<b>Chemicals and other consumables:</b>	Rs. 100 per sample	Rs 210 per sample	Rs. 520 per sample
<b>[Model: Bruker EMX MicroX]</b>			
<b>Operating Frequency 9.7 GHz</b>			
<b>Temperature: upto 100K</b>			
<b>Combined Confocal Raman- AFM Microscope</b>	Rs. 250 per sample Raman Single Spectra Rs. 200 per sample Raman Imaging Rs. 300 per sample	Rs. 500 per sample Raman Single Spectra Rs. 400 per sample Raman Imaging Rs. 600 per sample	Rs. 1000 per sample Raman Single Spectra Rs. 800 per sample Raman Imaging Rs. 1200 per sample
<b>Field Emission Scanning Electron Microscope (FESEM) with Focussed Ion Beam (FIB)</b>	High Vacuum Mode Rs. 310 per sample Low Vacuum Mode Rs. 630 per sample *Charges is only for viewing	High Vacuum Mode Rs. 730 per sample Low Vacuum Mode Rs. 1260 per sample *Charges is only for viewing	High Vacuum Mode Rs. 2100 per sample Low Vacuum Mode Rs. 3150 per sample *Charges is only for viewing
<b>FCS</b>	Rs. 160 per hour or Rs. 1050 per day	Rs. 260 per hour or Rs. 2620 per day	Rs. 5250 per day
<b>Simulation Laboratory (Schrodinger Software)</b>	Rs. 50 per hour	Rs. 100 per hour	Rs. 200 per hour

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<b>STORM (STochastic Optical Reconstruction Microscopy)</b>	Rs. 1100/- per hour beyond 6 hrs. 930/- per hour	Rs. 2200/- per hour beyond 6 hrs. 2030/- per hour	Rs. 3850/- per hour beyond 6 hrs. 3680/- per hour
<b>Glove Box</b>	Rs. 110/- per hour	Rs. 220/- per hour	Rs. 440 per hour
<b>XRAD</b>	Rs. 200/- for Radiation intensity (GY) 0 to 50 Rs. 400/- for Radiation intensity (GY) 50 to 100 Rs. 600/- for Radiation intensity (GY) 100 to 500 Rs. 1000/- for Radiation intensity (GY) 500 and above	Rs. 400/- for Radiation intensity (GY) 0 to 50 Rs. 600/- for Radiation intensity (GY) 50 to 100 Rs. 800/- for Radiation intensity (GY) 100 to 500 Rs. 1200/- for Radiation intensity (GY) 500 and above	Rs. 800/- for Radiation intensity (GY) 0 to 50 Rs. 1000/- for Radiation intensity (GY) 50 to 100 Rs. 1200/- for Radiation intensity (GY) 100 to 500 Rs. 1600/- for Radiation intensity (GY) 500 and above

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