

ADVANCED INSTRUMENTATION RESEARCH FACILITY

USER CHARGES

w.e.f. 01.11.2017

Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
Transmission Electron Microscope (TEM)	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
Scanning Electron Microscope (SEM)	Coating Rs. 250	Coating Rs. 500	Coating Rs. 650
	Bio. Sample Prep. Rs. 400	Bio. Sample Prep. Rs. 1000	Bio. Sample Prep. Rs. 2500
	<u>High Vacuum Mode :</u>		
	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
	<u>Low Vacuum Mode :</u>		
	Viewing Rs. 500	Viewing Rs. 1000	Viewing Rs. 3000

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Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
Confocal Microscope	FRET and FRAP Rs. 400 per hour	FRET and FRAP Rs. 2500 per hour	FRET and FRAP Rs. 6000 per hour
Time Resolved Fluorescence Spectrometer (TRFS)	Rs. 200 per hour or 1200 per day	Rs. 300 per hour or 2700 per day	Rs. 1000 per hour or Rs. 5000 per day
Liquid Nitrogen (LN2) w.e.f. 01.07.2021	Rs. 50 per litre	Rs. 100 per litre	Rs. 150 per litre
FTIR w.e.f 04.01.2021	Rs. 300/-	Rs.600/-	Rs. 1200/-
FTIR with peltier attachment w.e.f 04.01.2021	Rs. 500/-	Rs. 1000/-	Rs. 1500/-
X-Ray Diffraction System for Powder-Thin Films with low temp. XRD at Variable temprature	Rs. 250 per sample Rs. 500 and per scan at different tempratures Rs. 250	Rs. 800 per sample Rs. 1000+ per scan at different tempratures Rs. 300	Rs. 1200 per sample Rs. 2000+ per scan at different tempratures Rs. 500
Remarks:	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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EDXRF	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 500 per sample ii) Aerosol Filters: Rs. 500 per sample B) In Helium Mode: i) Loose Form: Rs. 600 per sample ii) Liquid Samples: Rs. 600 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 500 per sample Charges for Trace Level per element: Rs. 15 (Min. Charges Rs.500 per sample) In Helium Mode: Charges per element with standard: Rs. 20 (Minimum Charges Rs. 100 per sample) Total Charges: Number of Samples * Charges for a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 1000 per sample ii) Aerosol Filters: Rs. 1000/- per sample B) In Helium Mode: i) Loose Form: Rs. 1000 per sample ii) Liquid Samples: Rs. 1000 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 1000 Charges for Trace Level per element: Rs. 30 (Minimum Charges Rs.1000 per sample) In Helium Mode: Charges per element with standard: Rs. 40 (Minimum Charges Rs. 200 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 2000 per sample ii) Aerosol Filters: Rs. 1500 per sample B) In Helium Mode: i) Loose Form: Rs. 2000 per sample ii) Liquid Samples: Rs. 2000 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 2000 Charges for Trace Level per element: Rs. 45 (Min. Charges Rs. 2000/- per sample) In Helium Mode: Charges per element with standard: Rs. 60 (Minimum Charges Rs. 300 per sample) Total Charges: Number of Samples * Charges for Elements in a sample
WDXRF	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 400 per sample In Vacuum Mode: 10 Major oxides Elements with standards: Rs. 400 Charges for Trace Level per element: Rs. 15 (Minimum Charges Rs. 400 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 1000 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 1000 Charges for Trace Level per element: Rs. 30 (Minimum Charges Rs. 1000 per sample) Total Charges: Number of Samples * Charges for Elements in a sample	Semi quantitative Analysis: A) In Vacuum Mode: i) Pellet Form: Rs. 2000 per sample In Vacuum Mode: 10 Major oxides Element with standards: Rs. 2000 Charges for Trace Level per element: Rs. 45 (Minimum Charges Rs. 2000 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
Protein Crystallization Lab. For XRD	Rs. 320 per sample Consumable: Rs. 220 Plate Rs. 160	Rs. 500 per sample Consumables: Rs. 400 Plate Rs. 300	Rs. 1000 per sample Consumables: Rs. 1000 Plate Rs. 500
X-Ray Diffractometer (XRD) for Macromolecules & Proteins	Rs. 700 per samples	Rs. 2000 per sample	Rs. 3000 per sample
Gas Chromatograph Mass Spectrometer (GCMS) Multivapour w.e.f. 18.01.2021	GC Rs. 500 GCMS Rs. 800 Rs. 50	GC Rs. 800 GCMS Rs. 1500 Rs. 100	GC Rs. 1500 GCMS Rs. 4500 Rs. 150
GCMS/MS w.e.f 18.01.2021	Rs. 2000	Rs. 5000	Rs.10000
500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer with solid state attachment (CPMAS)	a) ¹ H NMR Rs. 200 b) ¹³ C and other nuclei Rs. 250 c) 2D expmnt Rs. 500 e) Solid-state experiment: i) ¹ H NMR Rs. 500 ii) ¹³ C NMR or Other Nuclei: Rs. 600 f) Variable Temperature: i) High Temp. Rs.150 ii) Low Temp. Rs. 250 Charges to be added with experiments a/b/c/d/e g) Additional Deuterated Solvent Charges: D ₂ O/CDCl ₃ , DMSO-d ₆ Rs. 100	a) ¹ H NMR Rs. 400 b) ¹³ C and other nuclei Rs. 550 c) 2D experiment Rs. 1100 e) Solid-state experiment: i) ¹ H NMR Rs. 2000 ii) ¹³ C NMR or Other Nuclei: Rs. 3600 f) Variable Temperature: i) High Temp. Rs. 300 ii) Low Temp. Rs. not available for external users g) Additional Deuterated Solvent Charges: D ₂ O/CDCl ₃ , DMSO-d ₆ Rs. 150 per sample	a) ¹ H NMR Rs. 800 b) ¹³ C and other nuclei Rs. 1300 C) 2D experiment Rs. 2500 e) Solid-state experiment: i) ¹ H NMR Rs. 7500 ii) ¹³ C NMR or Other Nuclei: Rs. 10500 f) Variable Temperature: i) High Temp. Rs. 500 ii) Low Temp. Rs. not available for external users g) Additional Deuterated Solvent Charges: D ₂ O/CDCl ₃ , DMSO-d ₆ Rs. 450 per sample

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Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
Surface Plasmon Resonance (SPR) Spectrometer	Rs. 600 per day SPR bare gold discs: Rs. 3000 Chemicals and other consumables: Rs. 500 per experiment Vacuum filter assembly Rs. 2000	Rs. 1200 per day SPR bare gold discs: Rs. 4000 Chemicals and other consumables: Rs. 1000 per experiment Vacuum filter assembly Rs. 2000	Rs. 3000 per day SPR bare gold discs: Rs. 4000 Chemicals and other consumables: Rs. 1500 per experiment Vacuum filter assembly Rs. 2000
Galvanostat-Potentiostat for electrochemical measurements	Rs.100 for each sample/analysis Consumables: Rs.250	Rs. 100 for each sample/analysis Consumables:Rs.500	Rs.500/- for each sample/analysis Consumables: Rs. 1000
Mass Spectrometry	MALDI based analysis 1. Intact Mass / MW Determination: Rs. 250 2. Peptide Mass Fingerprinting (PMF):Rs.400 3. MS/MS Protein Id:Rs.600 4. LC-Maldi (Protein Id/PTMs):Rs. 1200 5. iTRAQ analysis:Rs-12,000 6. MS/MS analysis (perPrecursorion): Rs.250 LC-ESI-MS/MS based analysis 1. InactMass/MW determ:Rs.400 2. UPLC-MS/MS analysis(Qualitative): Rs.600 3. UPLC-MS/MS analysis (Qualitative): Rs.2500 4. MS/MS analysis per Rs. 300 5. RP/RP 2D-nano LC-MS/MS:Rs.2000 OffGel Fractionator Rs.1000 per sample Bio Analyzer Rs.1500 per chip (12 sample)	MALDI based analysis 1. Intact Mass / MW Determination: Rs.600 2. Peptide Mass Fingerprinting (PMF):Rs.1000 3. MS/MS Protein Id:Rs 1500 4. LC-Maldi (Protein Id/PTMs):Rs.5000 5. iTRAQ analysis:Rs-50,000 6. MS/Ms analysis per Precursorion):Rs.500 LC-ESI-MS/MS 1. InactMass/MW determination:Rs.800 2. UPLC-MS/MS analysis(Qualitative):Rs.2000 3. UPLC-MS/MS analysis(perPrecursorion): Rs.5000 4. MS/MS analysis(per Precursorion):Rs.600 5. RP/RP 2D-nano LC-MS/MS:Rs.4000 OffGel Fractionator Rs.2000 per sample Bio Analyzer Rs.3000 per chip (12 sample)	MALDI based analysis 1. Intact Mass / MW Determination: Rs.1500 2. Peptide Mass Fingerprinting (PMF):Rs.2500 3. MS/MS Protein Id:Rs 3500 4. LC-Maldi (Protein Id/PTMs):Rs. 7000 5. iTRAQ analysis:Rs2.5 lac 6. MS/Ms analysis(per Precursorion):Rs.1500 LC-ESI-MS/MS 1. InactMass/MW determination:Rs.1500 2. UPLC-MS/MS analysis(Qualitative):Rs.4000 3. UPLC-MS/MS analysis(perPrecursorion): Rs.10000 4. MS/MS analysis(per Precursorion):Rs.1500 5. RP/RP 2D-nano LC-MS/MS:Rs.10000 OffGel Fractionator Rs.3000 per sample Bio Analyzer Rs.4500 per chip (12 sample)

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Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
Femtosecond Laser Facility (Fluorescence Up-conversion)	Rs. 1250 per day or Rs. 250 per hour	Rs. 1875 per day or Rs. 375 per hour	Rs. 3750 per day
Circular Dichroism Spectrometer	Rs. 200 per hour	Rs. 700 per hour	Rs. 2500 per hour
Stop Flow	Rs. 100 per sample	Rs. 500 per sample	Rs. 1000 per sample
Cell Sorter and Flow Cytometer	Rs. 600 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges)	Rs. 1000 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges)	Rs. 1800 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges)
Quartz Crystal Microbalance	Rs. 100 for each sample Quartz crystal Ti/Au: Rs. 4200 Consumables: Rs. 250 per day	Rs. 200 for each sample Quartz crystal Ti/Au: Rs. 4200 Consumables: Rs. 500 per day	Rs. 100 for each sample Quartz crystal Ti/Au: Rs. 4200 Consumables: Rs. 1000 per day
Physical Property Measurement System (PPMS)	Rs. 1400 per day or Rs. 175 per hour	Rs. 2800 per day or Rs. 350 per hour	Rs. 7000 per day
Live Cell Confocal Microscope	Rs. 750 per hour and beyond 6 hrs. Rs. 600 per hour	Rs. 3500 per hour	Rs. 5000 per hour
TIRF	Rs. 450 per hour	Rs. 2000 per hour	Rs. 4000 per hour
Bio Station	Rs. 450 per hour	Rs. 2000 per hour	Rs. 4000 per hour
Nikon Confocal	Rs. 400 per hour	Rs. 2500 per hour	Rs. 6000 per hour

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Equipment	JNU	Academic & Research Institutions / IITs/IISERs/Univ.	Private Industries / For - Profit Laboratories
Electron Paramagnetic Resonance Spectroscopy with low temperature measurement setup EPR at different tempratures Chemicals and other consumables: [Model: Bruker EMX MicroX] Operating Frequency 9.7 GHz Temprature: upto 100K	Rs. 200 per sample or 350 per hour Rs. 600 per sample or per scan at different temprature Rs. 200 Rs. 100 per sample	Rs. 600 per sample Rs. 2000 per sample or per scan at different tempratures Rs. 500 Rs 200 per sample	Rs. 1100 per sample Rs. 5000 per sample or per scan at different temprature Rs. 1000 Rs. 500 per sample
Combined Confocal Raman- AFM Microscope	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
Field Emssion Scanning Electron Microscope (FESEM) with Focussed Ion Beam (FIB)	High Vacuum Mode Rs. 300 per sample Low Vacuum Mode Rs. 600 per sample *Charges is only for viewing	High Vacuum Mode Rs. 700 per sample Low Vacuum Mode Rs. 1200 per sample *Charges is only for viewing	High Vacuum Mode Rs. 2000 per sample Low Vacuum Mode Rs. 3000 per sample *Charges is only for viewing
FCS	Rs. 150 per hour or Rs. 1000 per day	Rs. 250 per hour or Rs. 2500 per day	Rs. 5000 per day
Simulation Laboratory (Schrodinger Software)	Rs. 50 per hour	Rs. 100 per hour	Rs. 200 per hour

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STORM (Stochastic Optical Reconstruction Microscopy) (w.e.f. October 2018)	Rs. 1000/- per hour beyond 6 hrs. 850/- per hour	Rs. 2000/- per hour beyond 6 hrs. 1850/- per hour	Rs. 3500/- per hour beyond 6 hrs. 3350/- per hour
Glove Box	Rs. 100/- per hour	Rs. 200/- per hour	Rs. 400 per hour
XRAD	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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