

ADVANCED INSTRUMENTATION RESEARCH FACILITY USER CHARGES

| 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 |
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| <u>Low Vacuum Mode :</u> | | | |
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| Viewing Rs. 500 | Viewing Rs. 1000 | Viewing Rs. 3000 | |

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| Confocal Microscope | FRET and FRAP Rs. 450 per hour | FRET and FRAP Rs. 3000 per hour | FRET and FRAP Rs. 6000 per hour |
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| Time Resolved Fluorescence Spectrometer (TRFS) | 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 |
| | | | |
| Liquid Nitrogen (LN2) | Rs. 50 per litre | Rs. 100 per litre | Rs. 150 per litre |
| | | | |
| FTIR | Rs. 350/- | Rs.800/- | Rs. 1600/- |
| FTIR with peltier attachment | Rs. 500/- | Rs. 1000/- | Rs. 1500/- |
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| | | | |
| X-Ray Diffraction System for Powder-Thin Films with low temp. XRD at Variable temprature | Rs. 300 per sample Rs. 600 and per scan at different tempratures Rs. 300 | Rs. 1000 per sample Rs. 1200+ per scan at different tempratures Rs. 360 | Rs. 1500 per sample Rs. 2400+ per scan at different tempratures Rs. 600 |
| 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. 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 | 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. 30 (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 |
| | | | |
| WDXRF | 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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| Protein Crystallization Lab. For XRD | 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 |
| | | | |
| X-Ray Diffractometer (XRD) for Macromolecules & Proteins | Rs. 770 per samples | Rs. 2200 per sample | Rs. 3300 per sample |
| | | | |
| Gas Chromatograph Mass Spectrometer (GCMS) Multivapour | GC Rs. 520 GCMS Rs. 840 Rs. 50 | GC Rs. 840 GCMS Rs. 1570 Rs. 100 | GC Rs. 1570 GCMS Rs. 4720 Rs. 160 |
| GCMS/MS | Rs. 2100 | Rs. 5250 | Rs.10500 |
| | | | |
| 500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer with solid state attachment (CPMAS) | a) ¹ H NMR Rs. 220 b) ¹³ C and other nuclei Rs. 270 c) 2D expmnt Rs. 550 e) Solid-state experiment: i) ¹ H NMR Rs. 550 ii) ¹³ 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: D2O/CDCl3, DMSO-d6 Rs. 110 | a) ¹ H NMR Rs. 440 b) ¹³ C and other nuclei Rs. 600 c) 2D experiment Rs. 1210 e) Solid-state experiment: i) ¹ H NMR Rs. 2200 ii) ¹³ 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: D2O/CDCl3, DMSO-d6 Rs. 160 per sample | a) ¹ H NMR Rs. 880 b) ¹³ C and other nuclei Rs. 1430 C) 2D experiment Rs. 2750 e) Solid-state experiment: i) ¹ H NMR Rs. 8250 ii) ¹³ 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: D2O/CDCl3, DMSO-d6 Rs. 490 per sample |

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| Surface Plasmon Resonance (SPR) Spectrometer | 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 |
| Galvanostat-Potentiostat for electrochemical measurements | 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 |
| Mass Spectrometry | 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.iTRAQanalysis: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.iTRAQanalysis: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/MSanalysis(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.2620 3.MS/MS Protein Id:Rs 3670 4.LC-Maldi (Protein Id/PTMs):Rs.7350 5.iTRAQanalysis: Rs 2.625 lac 6.MS/Msanalysis(per Precursorion):Rs.1570 LC-ESI-MS/MS 1.InactMass/MW determination:Rs.1570 2.UPLC-MS/MSanalysis(Qualitative): Rs.4200 3.UPLC-MS/MSanalysis(perPrecursorion):Rs.10500 4.MS/MS analysis(per Precursorion):Rs.1570 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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| Femtosecond Laser Facility (Fluorescence Up-conversion) | Rs. 1310 per day or Rs. 260 per hour | Rs. 1970 per day or Rs. 390 per hour | Rs. 3940 per day |
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| Circular Dichroism Spectrometer | Rs. 240 per hour | Rs. 840 per hour | Rs. 3000 per hour |
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| Stop Flow | Rs. 120 per sample | Rs. 600 per sample | Rs. 1200 per sample |
| | | | |
| Cell Sorter and Flow Cytometer | Rs. 660 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges) | Rs. 1100 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges) | Rs. 1980 per hour / per 10 samples for flow cytometer (incl. Sheath fluid charges) |
| | | | |
| Quartz Crystal Microbalance | 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 |
| | | | |
| Physical Property Measurement System (PPMS) | Rs. 1470 per day or Rs. 180 per hour | Rs. 2940 per day or Rs. 370 per hour | Rs. 7350 per day |
| | | | |
| Live Cell Confocal Microscope | Rs. 790 per hour and beyond 6 hrs. Rs, 630 per hour | Rs. 3670 per hour TIRF | Rs. 5250 per hour TIRF |
| TIRF | Rs. 470 per hour | Rs. 2100 per hour | Rs. 4200 per hour |
| Bio Station | Rs. 470 per hour | Rs. 2100 per hour | Rs. 4200 per hour |
| Nikon Confocal | Rs. 420 per hour | Rs. 2620 per hour | Rs. 6300 per hour |

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| Electron Paramagnetic Resonance Spectroscopy with low temperature measurement setup EPR at different temperatures Chemicals and other consumables: [Model: Bruker EMX MicroX] Operating Frequency 9.7 GHz Temperature: upto | Rs. 210 per sample or 370 per hour Rs. 630 per sample or per scan at different temperature Rs. 210 Rs. 100 per sample | Rs. 630 per sample Rs. 2100 per sample or per scan at different temperatures Rs. 520 Rs 210 per sample | Rs. 1150 per sample Rs. 5250 per sample or per scan at different temperature Rs. 1050 Rs. 520 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 Emission Scanning Electron Microscope (FESEM) with Focussed Ion Beam (FIB) | 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 |
| | | | |
| FCS | Rs. 160 per hour or Rs. 1050 per day | Rs. 260 per hour or Rs. 2620 per day | Rs. 5250 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) | 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 |
| | | | |
| Glove Box | Rs. 110/- per hour | Rs. 220/- per hour | Rs. 440 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 |

For online payment click on : <https://jnucashless.fdsbase.com/>