



Advanced Instrumentation Research Facility

USER CHARGES

(All samples to be prepared by users at their end unless specified)

Please consult concerned AIRF staff member(s) before bringing your samples.

w.e.f. 01.01.2015

Equipment/Laboratory	JNU	Academic & Research Institutions/IITs/ISERS/Universities	Private Industries/ For-Profit Laboratories	Important User Information
Transmission Electron Microscope (TEM)	<p>(a) Biological Sample Preparation (preparation of blocks, sectioning and staining): Rs. 800/- per sample</p> <p>(b) Sample Preparation for Non-Biological Samples or Negative Staining: Rs. 500/- per sample</p> <p>(c) TEM Viewing: Rs. 500/- per sample</p> <p>(d) TEM Viewing & EDX: Rs. 700/- per sample</p> <p>(e) TEM Viewing & EDX (Mapping): Rs.1000/- per sample</p>	<p>(a) Biological Sample Preparation (preparation of blocks, sectioning and staining): Rs. 2000/- per sample</p> <p>(b) Sample Preparation for Non-Biological Samples or Negative Staining: Rs. 800/- per sample</p> <p>(c) TEM Viewing: Rs.1500/- per sample</p> <p>(d) TEM Viewing & EDX: Rs. 2000/- per sample</p> <p>(e) TEM Viewing & EDX (Mapping): Rs.3000/- per sample</p>	<p>(a) Biological Sample Preparation (preparation of blocks, sectioning and staining): Rs. 5000/- per sample</p> <p>(b) Sample Preparation for Non-Biological Samples or Negative Staining: Rs. 1500/- per sample</p> <p>(c) TEM Viewing: Rs.3000/- per sample</p> <p>(d) TEM Viewing & EDX: Rs. 5000/- per sample</p> <p>(e) TEM Viewing & EDX (Mapping): Rs. 7,000/- per sample</p>	<p>Ten images shall be provided per sample. Hereafter, Rs. 100/- would be charged extra per image.</p> <ul style="list-style-type: none"> Biological samples will be accepted only after primary fixation with suitable fixative. For TEM, samples should be trimmed into 1.0-1.5 mm thick pieces (4 - 5 pieces for each sample). Fixation may be done in 2.5 % Glutaraldehyde and 2 % paraformaldehyde made in 0.1 M sodium phosphate buffer (pH7.2). The fixed sample should be brought at AIRF, JNU in fixative or in phosphate buffer at 4°C preferably between 10 am to 1 pm (Working days). Only 10 samples per requisition form will be accepted.
Scanning Electron Microscope (SEM)	<p>Coating: Rs. 200/- per sample</p> <p>Biological Sample Preparation (Fixation, dehydration, critical point drying and coating): Rs. 400/- per sample</p> <p><u>a) High Vacuum Mode:</u></p> <p>SEM Viewing: Rs.200/- per sample</p> <p>SEM Viewing & EDX: Rs. 500/- per sample</p> <p>Multipoint (>5) ; Rs. 800/-</p> <p>SEM Viewing & EDX Mapping: Rs. 800/- per sample</p> <p><u>b) Low Vacuum Mode:</u></p> <p>Viewing: Rs. 500/- per sample</p>	<p>Coating: Rs. 400/- per sample</p> <p>Biological Sample Preparation (Fixation, dehydration, critical point drying and coating): Rs. 1000/- per sample</p> <p><u>a) High Vacuum Mode:</u></p> <p>SEM Viewing: Rs. 600/- per sample</p> <p>SEM Viewing & EDX: Rs. 1500/- per sample</p> <p>Multipoint (>5) ; Rs. 2000/-</p> <p>SEM Viewing & EDX Mapping: Rs. 2000/- per sample</p> <p><u>b) Low Vacuum Mode:</u></p> <p>Viewing: Rs. 1000/- per sample</p>	<p>Coating: Rs. 600/- per sample</p> <p>Biological Sample Preparation (Fixation, dehydration, critical point drying and coating): Rs. 2500/- per sample</p> <p><u>a) High Vacuum Mode:</u></p> <p>SEM Viewing: Rs.2000/- per sample</p> <p>SEM Viewing & EDX: Rs. 3600/- per sample</p> <p>Multipoint (>5) ; Rs. 4000/-</p> <p>SEM Viewing & EDX Mapping: Rs. 4000/- per sample</p> <p><u>b) Low Vacuum Mode:</u></p> <p>Viewing: Rs. 3000/- per sample</p>	<p>Ten images per sample would be provided. Hereafter, Rs. 75/ would be charged extra per image.</p> <ul style="list-style-type: none"> Biological samples will be accepted only after primary fixation with suitable fixative. The thickness of samples may be upto 1 cm³. Fixation may be done in 2.5 % Glutaraldehyde and 2% paraformaldehyde made in 0.1 M sodium phosphate buffer (pH 7.2). The fixed sample should be brought at AIRF, JNU in fixative or in phosphate buffer at 4°C preferably between 10 am to 1 pm (Working days). Only 10 samples per requisition form will be accepted.

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Confocal Microscope Inverted Research Fluorescence Microscope	Rs. 300/- per hour for all samples including FRET, FRAP and FCS —	Rs. 1500/- per hour for all samples including FRET, FRAP and FCS —	Rs. 5000/- per hour for all samples including FRET, FRAP and FCS —	Contact AIRF before preparing/ submitting samples. This has a unique two- tiered, V shape optical design to accommodate a wide range of advanced research techniques giving bright images with minimal reflections or frame modifications. The IX71's modular frame and optical design provides nine access ports for multiple input or output devices. Up to four ports can have simultaneous access to a primary image. All the four ports are IR compatible. The camera system on this IX71 platform is DP71. It has special features: 1. 1.45 megapixel high resolution (1360x1024 pixels) images displayed live at 15fps. 2. DP71's dedicated 2/3 inch CCD is cooled by a Peltier element to 10°C below ambient, ensuring high sensitivity, low noise image capture. 3. You can choose and apply settings easily according to the specimen and observation method and then capture images quickly.
Time Resolved Fluorescence Spectrometer (TRFS)	Rs. 150/- per hour or 1000 per day	Rs. 250/- per hour or 2500 per day	Rs. 1000/- per hour or per day	<ul style="list-style-type: none"> • Those users who have booked the instrument for whole day , but could not use it for more than 2-3 hours on the booking day, will be charged for complete day • JNU and Outside JNU users who will use the instrument after a full day booking it will be charged as hourly basis thereafter (8 hrs.) • Contact AIRF: <ul style="list-style-type: none"> i) Before preparing samples. ii) For available excitation wavelengths.
Liquid Nitrogen (LN2)	Rs. 20/- per litre	Rs. 50/- per litre	Rs. 100/- per litre	Contact AIRF.

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FTIR-Raman	FTIR: Rs. 200/- per sample RAMAN: Rs. 250/- per sample IR-Microscope: Rs. 300/- per sample	FTIR: Rs. 500/- per sample RAMAN: Rs. 600/- per sample IR-Microscope: Rs. 1000/- per sample	FTIR: Rs. 1000/- per sample RAMAN: Rs. 1500/- per sample IR-Microscope: Rs. 2000/- per sample	Contact AIRF before preparing/ submitting samples.
EDXRF	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 400 /- per sample Calibration per element with standards: Rs. 100 /- per element ii) Loose Form Semi quantitative Analysis: Rs. 400 /- per sample Calibration per element with standards: Rs. 150 /- per element B) Aerosol Filters Semi quantitative Analysis: Rs. 400/- per sample Calibration per element standards: Rs. 100 /- per element C) Liquid Samples Semi quantitative Analysis: Rs. 600 /- per sample Calibration per element with standards: Rs. 150 /- per element	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 1000 /- per sample Calibration per element with standards: Rs. 200 /- per element ii) Loose Form Semi quantitative Analysis: Rs. 1000 /- per sample Calibration per element with standards: Rs. 250 /- per element B) Aerosol Filters Semi quantitative Analysis: Rs. 1000/- per sample Calibration per element standards: Rs. 300 /- per element C) Liquid Samples Semi quantitative Analysis: Rs. 1500 /- per sample Calibration per element with standards: Rs. 300 /- per element	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 2000 /- per sample Calibration per element with standards: Rs. 500 /- per element ii) Loose Form Semi quantitative Analysis: Rs. 2000 /- per sample Calibration per element with standards: Rs. 600 /- per element B) Aerosol Filters Semi quantitative Analysis: Rs. 1500/- per sample Calibration per element standards: Rs. 600 /- per element C) Liquid Samples Semi quantitative Analysis: Rs. 2000 /- per sample Calibration per element with standards: Rs. 1000 /- per element	Contact AIRF before preparing / submitting samples <ul style="list-style-type: none"> • Only solid samples in powder form with particle size <75µm can be analyzed with better accuracy • Minimum quantity of 1gm sample in case of plants and 2-3 gm in case of soil • Samples should be properly dried • Users should specify the elements to be identified • For very accurate and precise quantitative measurements, the user should provide the respective standards • For liquid samples, 10ml – liquid is required for sample analysis
WDXRF	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 400 /- per sample Calibration per element with standards: Rs. 100 /- per element	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 1000 /- per sample Calibration per element with standards: Rs. 300 /- per element	A) Powder Sample i) Pellet Form Semi quantitative Analysis: Rs. 2000 /- per sample Calibration per element with standards: Rs. 600 /- per element	Contact AIRF before preparing / submitting samples <ul style="list-style-type: none"> • Only solid samples in powder form with particle size <75µm can be analyzed with better accuracy • Minimum quantity of 1gm sample in case of plants and 2-3 gm in case of soil • Samples should be properly dried • Users should specify the elements to be identified • For very accurate and precise quantitative measurements, the user should provide the

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X-Ray Diffraction (XRD) System for Powder – Thin Films with low temperature attachment	Rs. 200/-per sample	Rs. 800/-per sample	Rs. 1000/-per sample	<p>Sample should be crushed and brought in powder form</p> <ul style="list-style-type: none"> Only 6 samples per requisition form will be accepted Maximum of one requisition form per user will be accepted in one single day. Subsequent requisition forms of same user will be accepted for booking and analysis only after all other users booked for the day, have finished their analysis 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.
XRD at variable temperature	Rs. 500/-per sample and per scan at different temperatures Rs. 200/-	Rs. 1000/-per sample and per scan at different temperatures Rs. 300/-	Rs. 2000/-per sample and per scan at different temperatures Rs. 500/-	
Protein Crystallization Laboratory for XRD	Rs. 300/- per sample Consumables: Rs. 200/- Plates: Rs. 200/- per plate	Rs. 400/- per sample Consumables: Rs. 200/- Plates: Rs. 300/- /- per plate	Rs. 1000/- per sample Consumables: Rs. 1000/- Plates: Rs. 500/- per plate	Contact AIRF before preparing/ submitting samples.
X-ray Diffractometer (XRD) - for Macromolecules & Proteins	Rs. 500/- per sample	Rs. 1500/- per sample	Rs. 3000/- per sample	<p>Patterns and convolutions would be given.</p> <p>Contact AIRF before preparing/ submitting samples.</p>
Capillary Electrophoresis	Rs. 200/- per three samples	Rs. 400/- per three samples	Rs. 1000/- per three samples	Contact AIRF before preparing/ submitting samples.
Gas Chromatograph Mass Spectrometer (GCMS)	GC: Rs. 150/- per sample MS: Rs. 300/- per sample GC-MS: Rs. 450/- per sample Note:- For any additional fragmentation spectra extra charges of Rs. 30 per peak	GC: Rs. 400/- per sample MS: Rs. 800/- per sample GC-MS: Rs. 1000/- per sample Note:- For any additional fragmentation spectra extra charges of Rs. 30 per peak	GC: Rs. 1000/- per sample MS: Rs. 1500/- per sample GC-MS: Rs. 2500/- per sample Note:- For any additional fragmentation spectra extra charges of Rs. 30 per peak	<p>Contact AIRF before preparing/ Submitting samples.</p> <p>Output to user for GC = Peak Separation profile + RT + Area. For GC-MS = peak separation profile + RT + Area + Base peak fragmentation profile.</p> <p>For any additional fragmentation spectra extra charges of Rs. 30/- per peak.</p> <p>Conditions:- (a) User will provide detailed method protocol. (b) User will supply standards as per their requirement.</p>
Multivapour	Rs. 50/- per sample	Rs. 100/- per sample	Rs. 150/- per sample	(c) Interpretation of fragment spectra of MS is User's responsibility.

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500 MHz Nuclear Magnetic Resonance (NMR) Spectrometer with solid state attachment (CPMAS)	<p>a) 1H NMR: Rs. 150/- per sample</p> <p>b) 13C and other Nuclei: Rs. 200/- per sample</p> <p>c) Experiments requiring hourly blocks (1 block for 3 hours):</p> <p>1) Block: Rs. 300/-</p> <p>2) Block: Rs. 400/-</p> <p>3) Block: Rs. 500/-</p> <p>4) Block: Rs. 600/-</p> <p>d) 2D experiments: Rs. 400/-</p> <p>e) Solid-state experiments:</p> <p>i) 1H NMR: Rs. 500/- per sample</p> <p>ii) 13C NMR and other nuclei: Rs. 600/- per sample</p> <p>f) Variable Temperature:*</p> <p>i) High Temp.: Rs. 100/-</p> <p>ii) Low Temp. Rs. 200/-</p> <p>* charges to be added with experiments a/b/c/d/e</p> <p>g) Additional Deuterated Solvent Charges: ** D2O/CDCI3, DMSO-<i>d</i>6</p> <p>:Rs. 100/- per sample</p> <p>** charges to be added with experiments a/b/c/d/e/f</p>	<p>a) 1H NMR: Rs. 350/- per sample</p> <p>b) 13C and other Nuclei: Rs. 500/- per sample</p> <p>c) Hourly blocks are not available to external users</p> <p>d) 2D experiments: Rs. 1000/-</p> <p>e) Solid-state experiments:</p> <p>i) 1H NMR: Rs. 2000/- per sample</p> <p>ii) 13C NMR and other nuclei: Rs. 3500/- per sample</p> <p>f) Variable Temperature:*</p> <p>i) High Temp.: Rs. 300/-</p> <p>ii) Low Temp.: not available to external users</p> <p>* charges to be added with experiments a/b/d/e</p> <p>g) Additional Deuterated Solvent Charges: ** D2O/CDCI3: Rs. 120/- per sample; DMSO-<i>d</i>6 Rs. 150/- per sample</p> <p>** charges to be added with experiments a/b/d/e/f</p>	<p>a) 1H NMR: Rs. 700/- per sample</p> <p>b) 13C and other Nuclei: Rs. 1200/- per sample</p> <p>c) Hourly blocks are not available to external users</p> <p>d) 2D experiments: Rs. 2500/-</p> <p>e) Solid-state experiments:</p> <p>i) 1H NMR: Rs. 7500/- per sample</p> <p>ii) 13C NMR and other nuclei: Rs. 10,500/- per sample</p> <p>f) Variable Temperature:*</p> <p>i) High Temp.: Rs. 500/-</p> <p>ii) Low Temp.: not available to external users</p> <p>* charges to be added with experiments a/b/d/e</p> <p>g) Additional Deuterated Solvent Charges: ** D2O/CDCI3: Rs. 250/- per sample; DMSO-<i>d</i>6 Rs. 450/- per sample</p> <p>** charges to be added with experiments a/b/d/e/f</p>	<p>Contact AIRF before preparing/ submitting samples.</p> <p>Important Note for Solidstate samples:</p> <p>(a) As a matter of AIRF policy, it has been decided that solid-state NMR experiments would be done three times a year.</p> <p>(b) Requests for solid-state experiments should be directly made to Dr. Pritam Mukhopadhyay, NMR faculty in-charge (pritam.jnu@gmail.com) or Dr. Ajai Kumar, operator in-charge (ajkumar33@gmail.com).</p> <p>(c) Due to shortage of trained personnel and complexity involved in solid-state NMR experiments, no special requests for emergency recording of solid-state samples would be entertained.</p> <p>(d) Samples for solid-state NMR should be sent to AIRF, JNU only after taking permission from the NMR faculty in-charge or operator incharge.</p> <p>(e) Nuclei to be recorded have to be clearly mentioned.</p> <p>(f) Samples should be finely powdered and a minimum amount of 125 mg should be sent.</p> <p>(g) Please check the revised rates and send the exact amount.</p>
Surface Plasmon Resonance (SPR) Spectrometer	<p>Rs. 500/- per day</p> <p>SPR bare gold discs: Rs. 2500/-</p> <p>Chemicals and other consumables: Rs. 250/- per experiment</p> <p>Vacuum filter assembly: Rs. 2000/-</p>	<p>Rs. 1000/- per day</p> <p>SPR bare gold discs: Rs. 2500/-</p> <p>Chemicals and other consumables: Rs. 500/- per experiment</p> <p>Vacuum filter assembly: Rs. 2000/-</p>	<p>Rs. 3000/- per day</p> <p>SPR bare gold discs: Rs. 2500/-</p> <p>Chemicals and other consumables: Rs. 1000/- per experiment</p> <p>Vacuum filter assembly: Rs. 2000/-</p>	<p>Contact AIRF before preparing samples.</p>
Galvanostat- Potentiostat for electrochemical measurements	<p>Rs. 200/- for each sample/ analysis</p> <p>Consumables: Rs. 250/-</p>	<p>Rs. 200/- for each sample/ analysis</p> <p>Consumables: Rs. 500/-</p>	<p>Rs. 1000/- for each sample/ analysis</p> <p>Consumables: Rs. 1000/-</p>	<p>Contact AIRF before preparing samples.</p>

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Mass Spectrometry	MALDI based analysis	MALDI based analysis	MALDI based analysis	
	1-Intact Mass/MW Determination :Rs-200/-	1-Intact Mass/MW Determination :Rs-400/-	1-Intact Mass/MW Determination :Rs-1200/-	
	2-Peptide Mass Fingerprinting(PMF) :Rs-300/-	2-Peptide Mass Fingerprinting(PMF) :Rs-800/-	2-Peptide Mass Fingerprinting(PMF) :Rs-2000/-	
	3-MS/MS Protein Id: Rs-500/-	3-MS/MS Protein Id: Rs-1200/-	3-MS/MS Protein Id: Rs-2500/-	
	4-LC-Maldi (Protein Id/PTMs): Rs-1000/-	4-LC-Maldi (Protein Id/PTMs):RS-3000	4-LC-Maldi (Protein Id/PTMs):Rs-5000/-	
	5-iTRAQ analysis :Rs-10,000/-	5-iTRAQ analysis :Rs-50,000/-	5-iTRAQ analysis :Rs-2.5 Lac/-	
	6-MS/MS analysis(per Precursor ion) :Rs- 200/-	6-MS/MS analysis(per Precursor ion) :Rs-400/-	6-MS/MS analysis(per Precursor ion) :Rs-1200/-	
	LC-ESI-MS/MS based analysis	LC-ESI-MS/MS based analysis	LC-ESI-MS/MS based analysis	
	1-Inact Mass/MW determination :Rs-300/-	1-Inact Mass/MW determination :Rs-600/-	1-Inact Mass/MW determination :Rs-1500/-	
	2-UPLC-MS /MS analysis(Qualitative):Rs-500/-	2-UPLC-MS /MS analysis(Qualitative):Rs-2000/-	2-UPLC-MS /MS analysis(Qualitative):Rs-4000/-	
	3-UPLC-MS/MS analysis(Quantitative):Rs-2000/-	3-UPLC-MS/MS analysis(Quantitative):Rs-5000/-	3-UPLC-MS/MS analysis(Quantitative):Rs-10000/-	
	4-MS/MS analysis(per Precursor ion):Rs-300/-	4-MS/MS analysis(per Precursor ion):Rs-600/-	4-MS/MS analysis(per Precursor ion):Rs-1500/-	
	5-RP/RP 2D-nano LC-MS/MS :Rs-1500/-	5-RP/RP 2D-nano LC-MS/MS :Rs-4000/-	5-RP/RP 2D-nano LC-MS/MS :Rs-10000/-	
OffGel Fractionator	OffGel Fractionator	OffGel Fractionator		
Rs. 1000/- per sample	Rs. 2000/- per sample	Rs. 3000/- per sample		
Bio Analyzer	Bio Analyzer	Bio Analyzer		
Rs. 1500/- per chip (12 sample)	Rs. 3000/- per chip (12 sample)	Rs. 4500/- per chip (12 sample)		

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Femtosecond Laser Facility (Femtosecond Fluorescence Up-conversion)	Rs. 1000/-per day Or Rs. 200/- per hour	Rs. 1500/- per day Or Rs. 300/- per hour	Rs. 3000/- per day	
<p>Please contact Dr. Sobhan Sen (faculty in-charge, Femtosecond facility) at sobhan.sen@gmail.com for details of sample preparation and other details.</p> <p>Instructions for the users:</p> <ol style="list-style-type: none"> The user has to run their samples first in the picosecond TRFS machine. And only if it is absolutely necessary to obtain the fast life-times of molecules which are not resolved in picosecond TRFS machine, only then the users will be allowed to run their samples in the femtosecond facility. The users should have sufficient knowledge of picosecond and femtosecond spectroscopy. Available excitation wavelengths are: 375 nm to 470 nm (for second harmonic). 280 nm to 320 nm (for third harmonic). Lifetime measurement window: 50 fs to 1.5 ns (after deconvolution). 				
Circular Dichroism (CD) Spectrometer	Rs. 150/- per hour	Rs. 500/- per hour	Rs. 2500/- per hour	Contact AIRF before preparing/ submitting samples.
Stop Flow	Rs. 100/- per sample	Rs. 500/- per sample	Rs. 1000/- per sample	Contact AIRF before preparing/ submitting samples.
Cell Sorter and Flow Cytometer	<ul style="list-style-type: none"> Rs. 400/- per hour for Flow cytometry (including the sheath fluid charges) Rs. 400/- per hour for 	<ul style="list-style-type: none"> Rs. 800/- per hour for Flow cytometry (including the sheath fluid charges) Rs. 1200/- per hour for Sorting 	<ul style="list-style-type: none"> Rs. 1500/- per hour for Flow cytometry (including the sheath fluid charges) Rs. 3000/- per hour for Sorting 	Users will be provided the sheath fluid and sample tubes for their sample analysis.
Quartz Crystal Microbalance	Rs. 100/- for each sample/ analysis Quartz Crystal Ti/Au: Rs. 4200/- Consumables: Rs. 250/- per day <i>Note: Rates of crystal may vary depending upon the specifications and Company price.</i>	Rs. 200/- for each sample/ analysis Quartz Crystal Ti/Au: Rs. 4200/- Consumables: Rs. 500/- per day <i>Note: Rates of crystal may vary depending upon the specifications and Company price.</i>	Rs. 1000/- for each sample/ analysis Quartz Crystal Ti/Au: Rs. 4200/- Consumables: Rs.1000/- per day <i>Note: Rates of crystal may vary depending upon the specifications and Company price.</i>	Contact AIRF before preparing/ submitting samples.
Physical property Measurement System (PPMS)	Rs. 1000/- per day Or Rs. 100/- per hour	Rs. 2000/- per day Or Rs. 250/- per hour	Rs. 5000/- per day	Contact AIRF before preparing/ Submitting samples.

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Live cell Confocal Microscope	Rs. 600/- per hour TIRF Rs. 300/- per hour Bio Station Rs. 300/- per hour	Rs. 2500/- per hour TIRF Rs. 1500/- per hour Bio Station Rs. 1500/- per hour	Rs. 4000/- per hour TIRF Rs. 3000/- per hour Bio Station Rs. 3000/- per hour	Contact AIRF before preparing samples and for available facilities pertaining to live imaging. Instrument facilities available in this laboratory: <ol style="list-style-type: none"> 1. RealTimeLaser Scanning Confocal Microscope Model A1R with motorized inverted microscope having Live Cell and Spectral Imaging (Nikon-Model Ti-E) 2. Fully Motorized Laser Total Internal Reflection Fluorescence (TIRF) Microscope (Nikon- Model Ti- E) 3. Integrated Live Cell Imaging Set- up (Model Biostation IM-Q) 4. Trinocular Research Microscope (anti-fungus type) for bright field, phasecontrast, DIC, polarizing and digital camera attachment (Nikon- Model 80i)

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<p>Electron Paramagnetic Resonance spectroscopy with low temperature measurement setup</p> <p>EPR at different temperatures [Subject to initiation of the variable temperature (VT) mode]</p> <p>Chemicals and other consumables:</p> <p>[Model: Bruker EMX MicroX]</p> <p>Operating frequency: 9.7 GHz</p> <p>Temperature : Upto 100K</p>	<p>Rs. 150/-per sample or 300 per hour *</p> <p>Rs 600 per sample or per scan at different temperatures Rs. 200</p> <p>Rs. 100/- per sample</p>	<p>Rs. 500/-per sample</p> <p>Rs 2000 per sample or per scan at different temperatures Rs. 500</p> <p>Rs. 200/- per sample</p>	<p>Rs. 1000/-per sample</p> <p>Rs 5000 per sample or per scan at different temperature Rs. 1000</p> <p>Rs. 500/- per sample</p>	<ol style="list-style-type: none"> 1. Contact AIRF before preparing/ submitting samples. 2. Only 10 samples per requisition form will be accepted. 3. Maximum of one requisition form per user at a time will be accepted. 4. Subsequent requisition forms of same user will be accepted for booking and analysis only when previous requisition is attended. 5. The maximum time for analysis of one sample is 1/2 hour. After this, the same sample would be treated as new sample and charged accordingly. <p>*Only for specialized experiments (users must be acquainted with the physical parameters).</p>

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Combined Confocal Raman – AFM Microscope	Atomic Force Microscope (AFM) imaging Rs. 250/-per sample Raman Single Spectra Rs. 200/-per sample Raman imaging Rs. 300/-per sample	Atomic Force Microscope (AFM) imaging Rs. 500/-per sample Raman Single Spectra Rs. 400/-per sample Raman imaging Rs. 600/-per sample	Atomic Force Microscope (AFM) imaging Rs. 1000/-per sample Raman Single Spectra Rs. 800/-per sample Raman imaging Rs. 1200/-per sample	<ol style="list-style-type: none"> Contact AIRF before preparing/ submitting samples. Only 10 samples per requisition form will be accepted. Maximum of one requisition form per user at a time will be accepted. Subsequent requisition forms of same user will be accepted for booking and analysis only when previous requisition is attended.
Field Emission 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	<ol style="list-style-type: none"> Contact AIRF before preparing/ submitting samples. Only 10 samples per requisition form will be accepted. Maximum of one requisition form per user at a time will be accepted. Subsequent requisition forms of same user will be accepted for booking and analysis only when previous requisition is attended.

- All results would be given on a compact disc (CD) provided by AIRF.
- # Analysis other than routine shall be charged extra.
- ** AIRF will not supply any software copies for offline analysis.
- *** The above rates are subject to time to time revision.

Note: The facility timings are from 9.00 am to 5.30 pm. The Facility is closed on Saturday, Sunday and Government Holidays.

- ❖ **The Requisition forms for the users can be downloaded from the AIRF site or can be collected from AIRF Office.**
- ❖ For the users within JNU, the duly filled forms must be signed by the Supervisor and submitted at the AIRF office for the booking of the user slot for instrument.
- ❖ The requisition forms from users outside JNU must be signed by concerned officials and submitted in AIRF office or sent before analysis by mail/ post/ courier along with the Demand Draft drawn in favour of **“The Finance Officer - JNU payable at New Delhi”** for the amount calculated as per user charges given above for all samples/ analysis. Users have to pay service tax with user charges as per Government of India rules. Users coming from outside JNU and other stations may reconfirm the availability of time slots in advance just before coming.
- ❖ The Director’s decision shall be final in case of any dispute.
- ❖ The users shall be allotted the time slots as per the availability.
- ❖ **All users are required to acknowledge the use of AIRF equipment/ AIRF facilities and the person(s) providing the technical help as well as funding agency (DBTprojectNo: BT/PR3130/INF/22/139/2011, dated 15/10/2013) in all their research publications/ articles resulting from the use of AIRF. A copy of such publication must be submitted to AIRF for reference and record.**