राष्ट्रीय औषधीय शिक्षा एंव अनुसंधान संस्थान
National Institute of Pharmaceutical Education & Research
सैक्टर-67, एस.ए.एस. नगर, पंजाब-160062

NIPER/RGO/OO/2014/ 1560 01.10.2014

कार्यालय आदेश

All the major instruments of the Institute (as per attached list) will be reserved for minimum two working days in a week for the analysis of samples received at Central Instrumentation Laboratory (CIL) from the faculty/students of the Institute. External users may also utilize these instruments as per CIL policy.

The instruments will be maintained and operated by the concerned Department. All spares consumable, AMC and other instrument related issues will be taken care by the respective Department. All the logbooks and records will be maintained by the concerned department. The analysis charges are :

1. Industry/private Institute as per attached rate list.
2. SMPIC/Government Institute will be charged 50% of the rate list
3. Faculty/students of NIPER will be charged 25% of the Government/Institutional charges and charges shall be debited from their respective allocations for consumables/contingencies.

This issues with the approval of Competent Authority.

पी जे पी सिंह वडैच

[विंग कमांडर पी. जे. पी. सिंह वड़ैच (सेवानिवृत्त)]
कुलसचिव

CC:

Secretary to Director
Dean
All HODs/All faculty Members -
/All section Heads
Public Relation Cell –
Head, Computer Centre –**To upload on the website of the Institute.**
All Notice Boards
Concerned file.

List of NIPER Instruments

S. No	Instrument
1	**NMR SPECTROMETER** Make: JEOL Model: ECA500 MHz
2	**LC-NMR- SHIMADZU-JEOL 500 MHz**
3	**LC/MS MicroTOF** **Make: Bruker**
4	**LCMS ^{n}** Make: Thermo Model: LTQ-XL
5	**Accelerated Solvent Extraction** (ASE)
6	**FREEZE DRYER** (Lyophilizer)
7	**HPLC** Make: Shimadzu
8	**HP-TLC**
9	**GC-MS with Head Space**
10	**LCMS**
11	**Spray Dryer**
12	**Supercritical Fluid Extraction (SCFE) Facility (Laboratory Scale)**
13	**Supercritical Fluid Extraction (SCFE) Facility (Pilot Scale)**
14	**HR-TEM**
15	**Variable Pressure Scanning Electron Microscope (SEM) Hitachi S3400N**
16	**Atomic Force Microscope-Veeco Bioscope II Life Science (with IOM Nikon TE2000)**
17	**Confocal Laser Scanning Microscope FV 1000 SPD**
18	**Real Time In Vivo Optical Imaging (Biospace Measures, France)**
19	**Research Grade Rheometer, Bohlin C-V0R150**
20	**Vir Tis Advantage Freeze Dryer, 2.0 EL-85**
21	**High Pressure Homogenizer Emulsiflex C-3**
22	**Zeta Sizer**
23	**Semi Preparative HPLC**
24	**Preparative HPLC**
25	**Automated flash purification system**
26	**Size Exclusion Chromatography**
27	**Freeze Dryer**
28	**Flow Cytometer**
29	**Ultra Centrifuge (Refrigerated)**

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
SECTOR 67, PHASE X, S.A.S. NAGAR - 160 062
PHONE: 0172- 2214682-87, FAX: 0172-2214692, Web: www.niper.gov.in

NIPER Instruments Sample Analysis Charges
w. e. f. 1st April, 2018

S. No	Instrument Experiments	Type of Experiments	Proposed Charges for Industry
01	**NMR SPECTROMETER** Make: JEOL Model: ECA500 MHz	^{1}H, ^{13}C, ^{15}N, ^{31}P, (With solvent $CDCl_3$) D_2O Exchange etc. 1-D Normal Spectrum	Rs. 4500 per Spectrum or Rs. 4500 per hour of instrument time whichever is more
		^{1}H, ^{13}C, ^{15}N, ^{31}P, (With DMSO-d_6, CD_3OD & others deutrated solvents) 1-D Normal Spectrum	Rs. 5000 per Spectrum or Rs. 5000 per hour of instrument time whichever is more
		2-D COSY, HMQC or others using Gradient	Rs. 6000 per Spectrum or Rs. 6000 per hour of instrument time whichever is more
		2-D Correlation Spectrum (COSY, NOESY, ROESY, TOCSY etc.)	Rs. 6000 per Spectrum or Rs. 6000 per hour of instrument time whichever is more
		DEPT 45, DEPT 90 & DEPT 135 (Combined)	Rs. 8000 per Spectrum or Rs. 8000 per hour of instrument time whichever is more.
02	**LC-NMR- SHIMADZU-JEOL 500 MHz**	LC-NMR	Rs. 20000 per sample for first peak and Rs. 4000 for additional peak for up to 1 hour run time. Rs. 3000 per hour for extra instrument time, and other additional if usage of deutrated solvents.
03	**LC/MS MicroTOF** **Make: Bruker**	MS through direct injection	Rs. 5000/- per sample
		MS/MS through direct injection	Rs. 6000/- per sample

	(Unless indicated by client, initial analysis will be done in +ESI mode. If subsequent analysis is required in other modes, the indicated cost will be charges for each subsequent injection)	LC/MS (Buffer –free method to be provided; column also may be needed for rapid reproducibility)	Rs. 6000/- per sample or Rs. 6000 per hour of instrument time (whichever is more).
		LC/MS/TOF Accurate Mass Analysis (Buffer –free method to be provided)	Rs. 7000 per sample for the first peak and Rs. 2000 for an additional peak. Rs. 2000 for each additional injection.
		Method development	Rs. 4000 per injection or Rs. 5000 per hour.
04	**LCMS ^{n}** Make: Thermo Model: LTQ-XL	Direct Injection Mass	Rs. 5000 per Sample
		Direct Injection/MS-MS (n=1)	Rs. 6000 per sample
		Direct Injection / MS-MS (n=2-9)	Additional Rs. 2000 per MS for single peak
		LCMS (Method to be Provided)	Rs. 6000 per Sample
		LC-MS / MS (n=1) (Method to be Provided)	Rs. 7000 per Sample
		LC-MS / MS (n=2-9) (Method to be Provided)	Additional Rs. 2000 per MS for single peak
05	**Accelerated Solvent Extraction** (ASE)	Extraction	Rs. 2000 per solvent
06	**FREEZE DRYER** (Lyophilizer)	RBG Bottle 500 ml / 1000 ml	Rs. 2000 per sample up to 100ml / 24 hr.
07	**HPLC** Make: Shimadzu	Analytical Qualitative	Rs. 2000 per Sample or
		Analytical Quantitative	Rs. 2500 per Sample
		Using Conductive/Pulse detectors	Rs. 3000 per Sample or

		Analytical Qualitative	Rs. 2000 per hour of instrument time whichever is more
		Using ELSD detectors Analytical Quantitative	Rs. 3000 per Sample or Rs. 2000 per hour of instrument time whichever is more
		Using Specialized Columns (a) Size exclusion analysis (b) Carbohydrate analysis	 Rs. 3500 per Sample Rs. 3500 per Sample
		HPLC Method Development	Rs. 3000 per hour of instrument time
		Method Development	
08	**HP-TLC**	Analytical Qualitative	Rs. 3000 per Sample
		Analytical Quantitative	Rs. 3000 per Sample or Rs. 3000 per hour of instrument time whichever is more
		Standard Curve Single compound for Quantitative Analysis (Method to be provided)	Rs. 6000 with 5 point curve
09	**GC-MS with Head Space**	Analytical Qualitative	Rs. 5000 per Sample
		Analytical Quantitative	Rs. 5000 per Sample
		Method Development	Rs. 5000 per hour of instrument time
		Standard Curve Single compound for Quantitative Analysis (Method to be provided)	Rs. 6000 with 5 point curve
		Library Search	Rs. 500 per peak
10	**LCMS**	Direct Injection Mass	Rs. 5000 per Sample
		LCMS (Method to be Provided)	Rs. 6000 per Sample
		Method Development	Rs. 6000 per hour
		Standard Curve Single compound for Quantitative Analysis (Method to be provided)	Rs. 6000 with 5 point curve

11	**Spray Dryer**	Aqueous sample	Rs. 2500 per hour of instrument time
		Method Development	Rs. 2500 per hour of instrument time
12	**Supercritical Fluid Extraction (SCFE) Facility**	Lab Scale	Rs. 5000 per sample or per hour of instrument time whichever is more
13	**Supercritical Fluid Extraction (SCFE) Facility**	Pilot Scale	Rs. 10000 per sample or per hour of instrument time whichever is more
14	**HR-TEM**	Instrumentation Charges per hour of scanning and digital TEM images (on CD provided by user)	Rs. 10000 per sample or Rs. 10000 per hour of instrument time whichever is more
		EDS Analysis	Rs. 2000 per scan
		STEM Imaging	Rs. 2000 per snap
		Ultra microtome	Rs. 2000 per block (5 sections on the grid without staining)
15	**Variable Pressure Scanning Electron Microscope (SEM) Hitachi S3400N** **Resolution:** SE Image-3 nm at 30 KV in High Vacuum mode; 10 nm at 3 KV in High Vacuum mode; BSE Image 4 nm at 30 KV in variable pressure mode. **Detectors:** Secondary Electron Detector; High sensitivity 5 Quadrant Semiconductor type; Back Scattered Electron Detector (BSED); Environmental Secondary Electron Detector; Thermo EDS System Free X-ray Super Dry Si (Li) Detector II with Light window for	Per sample Imaging (normal) using carbon or gold coating	Rs. 5000
		Per sample Imaging (Using cooling stage)	Rs. 7500
		Elemental analysis by EDS per sample	Rs. 5000
		CPD Per sample	Rs. 1000

	elemental analysis from Be/B to Uranium. Deben Cooling stage (-25 to +50 ^{o}C); Critical point drier available, **Application areas**: Biology, Geology, Metallurgy, Material Science. Sample nature for analysis: Liquid, solid, tissues, cells etc. CPD (Critical Point Drying)		
16	**Atomic Force Microscope-Veeco Bioscope II Life Science (with IOM Nikon TE2000)** **Control Station:** Nanoscope V Imaging: Tapping, contact and force modulation in air and fluid Motorized Precision Stage **Biol II-Cell Biopack:** Heated sample stage for ambient to 60 ^{o}C temperature control and compatible with microscope slides (25x75 mm), cover slips (25x25 mm) and 60 mm plastic Petri dishes **Application areas:** Biology, Geology, Metallurgy, Material Science. Sample nature for analysis: Liquid, solid, tissues, cells etc.		Rs. 5000 * Per Sample Imaging (up to 3 images or 3 Scans) Rs. 1000 each additional scan *These are the minimum charges per sample. Depending on the nature of sample and number of cantilevers utilized. User has to furnish information for analysis such as nature of sample, mode of analysis, type of cantilever to be used etc.
17	**Confocal Laser Scanning Microscope FV 1000 SPD** Controlled Environment Cell Growth Chamber for live cell imaging Spectral Fluorescent detector; Transmitted Light	Per Sample (Live Cell Imaging):	Rs. 5000 per sample per hour.
		Fixed samples/Cells	Rs. 5000 per slide/sample

	detector (Multi Ar laser 458, 488 & 515 nm), 543 nm HeNe (230 V), 633 HeNe (230V) FRET and FRAP, Colocalization analysis, spectral mixing, 3D reconstructions		
18	**Real Time In Vivo Optical Imaging (Biospace Measures, France)** **Modes:** Luminescence, Fluorescence Rats and Mice available at NIPER. Before sending the samples, please get in touch with the undersigned.	Per animal/Single image acquisition	Rs. 5000
		Continuous imaging	Rs. 7000 per hour
19	**Research Grade Rheometer, Bohlin C-V0R150**		Rs. 2000 per sample
20	**Vir Tis Advantage Freeze Dryer, 2.0 EL-85**		Rs. 2000 per sample up to 100ml/24hr or Rs. 2000 per hour of instrument time whichever is more
21	**High Pressure Homogenizer Emulsiflex C-3**		Rs. 2000 per Sample
22	**Zeta Sizer**	Particle size	Rs. 2000 per Sample
		Zeta Potential	Rs. 2000 per Sample
23	**Semi Preparative HPLC**	Method and Solvents to be provided by user	Rs. 5000 per hour of instrument time
24	**Preparative HPLC**	Method and Solvents to be provided by user	Rs. 6000 per hour of instrument time
25	**Automated flash purification system**	Method and Solvents to be provided by user	Rs. 4000 per hour of instrument time
26	**Size Exclusion Chromatography**		Rs. 3500 per hour of instrument time
27	**Freeze Dryer**		Rs. 2000 per sample up to

			100ml/24hr or Rs. 2000 hour of instrument time whichever is more
28	**Flow Cytometer**		Rs. 4000 per hour of instrument time
29	**ULTRA CENTRIFUGE (Refrigerated)**	Fixed Angle Rotor without Tubes	Rs. 2000 per hr.
		Fixed Angle Rotor with Tubes	Rs. 2500 per hr.
		Swing Bucket without Tubes	Rs. 2000 per hr.
		Swing Bucket with Tubes	Rs. 2500 per hr.
30	**CEM Liberty Microwave Peptide Synthesizer. Make CEM Liberty. Model 909600**	Synthesis of peptides. (All chemicals and solvents also including amino acids, solid support resins, coupling reagents, auxiliary additives and deprotection reagents required for the synthesis of peptide shall be provided by the user.)	Rs 4500 per hour of instrument time
31	**CEM Parallel Microwave Synthesizer Make CEM Explorer Model 909155**	Synthesis of organic compounds (All chemicals and solvents shall be provided by the user. Method for synthesis to be provided by user.)	Rs 3000 per hour of instrument time.
32	**AAPTEC Peptide Synthesizer Make AAPTEC Model FOCUS XC 36AA**	Synthesis of peptides. (All chemicals and solvents also including amino acids, solid support resins, coupling reagents, auxiliary additives and deprotection reagents required for the synthesis of peptide shall be provided by the user.)	Rs 3500 per hour of instrument time.

Sample Submission Procedure

1	***It is required to supply samples for each instrument separately with proper sample code, name of instrument, analysis required and quantity of sample in the eppendorf tubes of 1.5 ml volume. Please provide required sample quantities as specified on requisition forms. Please insure that only requested quantity is provided.***
2	***Please add GST @ 18.00 % in the above rate list.***
3	***Please add courier charges of Rs.100.***
4	***Please add 25% in the above rate list for soft copy of analysis i.e. data in excel or other format which are possible with the specific instrument except PDF.***
5	***The above charges are for industry.***
6	***The academic institutes will be charged only half the charges indicated above.***
7	***The SME- Pharma will be charged only half of the charges indicated in list.***
8	***The samples will be analyzed within 15 working days after completion of all formalities. In case of short payment, incomplete method, system problem the time will start after sorting all issues. Samples will be analyzed on first come first served basis. No enquiry will be entertained after 30 days of dispatch of results.***
9	***No enquiry from outside party regarding completion of analysis of samples will be entertained before 15 working days.***
10	***Samples requiring a specific method will not be accepted unless accompanied with detailed method and availability of requisite infrastructure/chemicals at NIPER. The receipt of payment should also be deferred in these cases till the time full clarity is obtained from party.***
11	***No sample will be processed without duly filled "Service Request Form" available on NIPER website***
12	***Entry of outsider (submitting samples) will be strictly forbidden in the instrument laboratories. The samples must be submitted to the authorized person.***

13	***Please note that NIPER will first cater to its own students and faculty.***	
14	***The payments can be deposited vide DD only payable in favor of Director, NIPER payable at Chandigarh / Mohali. Or through RTGS/ NEFT.***	
15	***In case of concession charges request letter should be on original institute/ university letter head <u>signed and stamped by HOD</u> with proper office dispatch number. Service request forms must be filled along with the request letter for each instrument. The letter should be addressed to Director, NIPER, Sector 67, Mohali. <u>No photo copy, scan copy, email copy or pen drive copy of letter head will be accepted.</u>***	
16	***No sample will be analyzed without advance payment.***	
17	***You may open an account with the institute by sending advance payment vide DD payable in favor of Director, NIPER payable at Chandigarh / Mohali to avoid delay in sample analysis.***	
18	***The sample name / batch no / required analysis should be clearly mentioned on request letter and requisition form.***	
19	***Samples submitted in violation of submission procedure will not be entertained.***	
20	***Email address for communication with CIL will be "cil@niper.ac.in"***	
21	***Phone numbers for communication will be +91 172 2292019 & +91 172 2292015***	
22	***Address for sample dispatch*** ***Mr. Vikas Grover,*** ***Room No 106, A - Block,*** ***NIPER, Sector 67,*** ***Mohali- 160062***	***Address for correspondence*** ***Director*** ***NIPER, Sector 67,*** ***Mohali- 160062***