



Instruments available at other departments of NIPER

1. LC-NMR SPECTROMETER

Make: Jeol
Model: ECA 500 MHZ



Type of Experiments	Proposed Charges for Industry/ private institutes
^1H , ^{13}C , ^{15}N , ^{31}P (With st CDCl_3) D_2O Exchange etc. 1-D Normal Spectrum	Rs. 2300 per Spectrum or Rs. 2500 per hour of instrument time whichever is more
^1H , ^{13}C , ^{15}N , ^{31}P (With $\text{DMSO}-d_6$, CD_3OD & others deuterated solvents) 1-D Normal Spectrum	Rs. 2500 per Spectrum or Rs. 2500 per hour of instrument time whichever is more
2-D COSY, HMQC or others using Gradient	Rs. 4000 per Spectrum or Rs. 4000 per hour of instrument time whichever is more
2-D Correlation Spectrum (COSY, NOESY, ROESY, TOCSY etc.)	Rs. 3000 per Spectrum or Rs. 2500 per hour of instrument time whichever is more
DEPT 45, DEPT 90 & DEPT 135 (Combined)	Rs. 4000 per Spectrum or Rs. 2500 per hour of instrument time whichever is more.
LC-NMR	Rs. 15000 per sample for first peak and Rs. 3000 for additional peak for up to 1 hour run time. Rs. 2500 per hour for extra instrument time, and other additional if usage of deuterated solvents.
Calculated charges for one sample	
1 blank injection	Rs. 10000
1 sample injection	Rs. 15000 for first peak and Rs. 3000 for any additional peak for up to one hour run time
Solvent charges	
D_2O	Rs. 10000
ACN	Rs. 20000
MEOD	Rs. 25000
1 injection on HPLC	Rs. 1500

Conditions for LC-NMR study: We can provide only ^1H , COSY, and TOCSY, not based on ^{13}C based experiments

- Concentration of sample should be high (~ 5 mg/ml).
- Peak of interest should be more than 6-7%.

HPLC method requirements:

- Selection of mobile phase tentative changes in NMR with respect to reference (drug) should be known. Either CH_3CN or CH_3OH can be selected depending on δ_{ppm} values of the standard sample (API).
- Flow rate should be only 0.5 ml/min.
- Water/Phosphate buffer is only required for LC-NMR study, no other buffers like CH_3COONa or $\text{CH}_3\text{COONH}_4$ or formic acid can be used for the LC-NMR study.
- LC method and chromatogram marked with targeted peak impurity/degradation products would be required.
- Column (15 x 4.6 mm i.d, 5 μ) is appreciable, but not necessary. If specific column has been used for the studies then you have to provide the same.

Additional information desired: Solubility profile of the drug with sample and also that of probable impurity.



2. LC/MS MicroTOF

Make: Bruker
Model: Q-TOF



Type of Experiments

Proposed Charges for Industry/ private institutes

MS through direct injection including blank injection

Rs. 2500 per sample

MS/MS through direct injection

Rs. 4000 per sample

LC/MS (Buffer –free method to be provided; column also may be needed for rapid reproducibility)

Rs. 4000/- per sample or Rs. 3000 per hour of instrument time (whichever is more).

LC/MS/TOF Accurate Mass Analysis
(Buffer –free method to be provided)

Rs. 5000 per sample for the first peak and Rs. 1500 for an additional peak. Rs. 1500 for each additional injection.

MS through direct injection

Rs. 2500 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)

3. LCMSⁿ

Make: Thermo
Model: LTQ-XL



Type of Experiments

Proposed Charges for Industry/ private institutes

Direct Injection Mass

Rs. 2000 per sample

Direct Injection/MS-MS (n=1)

Rs. 3000 per sample

Direct Injection / MS-MS (n=2-9)

Additional Rs. 2000 per MS for single peak

LCMS(Method to be Provided)

Rs. 4000 per sample

LC-MS / MS (n=1)
(Method to be Provided)

Rs. 5000 per sample

LC-MS / MS (n=2-9)
(Method to be Provided)

Additional Rs. 2000 per MS for single peak

4. Accelerated Solvent Extraction (ASE)

Make: Dionex
Model: ASE300



Type of Experiments

Proposed Charges for Industry/ private institutes

Extraction

Rs. 1500 per solvent



5. HPLC

Make: Shimadzu
Model: SCL-10AVP



Type of Experiments	Proposed Charges for Industry/ private institutes
Analytical Qualitative	Rs. 1500 per sample
Analytical Quantitative	Rs. 2000 per sample
Using Conductive/Pulse detectors Analytical Qualitative	Rs. 2500 per sample or Rs. 1500 per hour of instrument time whichever is more
Using ELSD detectors Analytical Quantitative	Rs. 2500 per sample or Rs. 1500 per hour of instrument time whichever is more
Using Specialized Columns (a) Size exclusion analysis (b) Carbohydrate analysis	Rs. 3000 per sample Rs. 3000 per sample
HPLC Method Development	Rs. 2500 per hour of instrument time

6. HP-TLC

Make: CAMAG
Model: TLC SCANNER-3



Type of Experiments	Proposed Charges for Industry/ private institutes
Analytical Qualitative	Rs. 2500 per sample
Analytical Quantitative	Rs. 2500 per sample or Rs. 2500 per hour of instrument time whichever is more
Standard Curve Single compound for Quantitative Analysis (Method to be provided)	Rs. 5000 with 5 point curve

7. GC-MS with Head Space

Make: Perkin Elmer
Model: Clarus 600 C



Type of Experiments	Proposed Charges for Industry/ private institutes
Analytical Qualitative	Rs. 2000 per sample
Analytical Quantitative	Rs. 2000 per sample
Method Development	Rs. 2000 per hour of instrument time
Standard Curve Single compound for Quantitative Analysis (Method to be provided)	Rs. 5000 with 5 point curve
Library Search	Rs. 300 per peak



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National Institute of Pharmaceutical Education and Research S.A.S Nagar
Sector 67, S.A.S Nagar (Mohali) – 160 062, Punjab (India)

8. LCMS

Make: WATERS
Model: ZQ MIRCROMASS 4000



Type of Experiments

Proposed Charges for Industry/ private institutes

Direct Injection Mass

Rs. 2000 per sample

LCMS (Method to be Provided)

Rs. 4000 per sample

Method Development

Rs. 5000 per hour

Standard Curve Single compound
for Quantitative Analysis
(Method to be provided)

Rs. 5000 with 5 point curve

9. Spray Dryer

Make: BUCHI
Model: B191



Type of Experiments

Proposed Charges for Industry/ private institutes

Aqueous sample

Rs. 2000 per hour of instrument time

Method Development

Rs. 2000 per hour of instrument time

10. Supercritical Fluid Extraction (SCFE) Facility

Make: Deven Super Critical Pvt. Ltd.
Model: Lab Scale



Type of Experiments

Proposed Charges for Industry/ private institutes

Lab Scale

Rs. 4000 per sample or per hour of
instrument time whichever is more



11. Supercritical Fluid Extraction (SCFE) Facility

Make: Deven Super Critical Pvt. Ltd.
Model: Pilot Scale



Type of Experiments

Proposed Charges for Industry/ private institutes

Pilot Scale

Rs. 8000 per sample or per hour of instrument time whichever is more

12. HR-TEM

Make: FEI
Model: TECNAI G²F-20



Type of Experiments

Proposed Charges for Industry/ private institutes

Instrumentation Charges per hour of scanning and digital TEM images (on CD provided by user)

Rs. 5000 per sample or Rs. 5000 per hour of instrument time whichever is more

EDS Analysis (EDAX Inc.)

Rs. 1000 per scan

STEM Imaging (Fischione Instrument Inc.)

Rs. 1000 per snap

Ultra microtome (BOECKDER Ltd.)

Rs. 1000 per block
(5 sections on the grid without staining)



13. Variable Pressure Scanning Electron Microscope (SEM) Hitachi S3400N

Make: Hitachi
Model: S3400N



Type of Experiments

Proposed Charges for Industry/ private institutes

Per sample Imaging (normal) using carbon or gold coating	Rs. 2500
Per sample Imaging (Using cooling stage)	Rs. 4000
Elemental analysis by EDS per sample	Rs. 2500
CPD Per sample	Rs. 500
Per sample Imaging (normal) using carbon or gold coating	Rs. 2500

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 elemental analysis from Be/B to Uranium. Deben Cooling stage (-25 to +50 °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)

14. Atomic Force Microscope-Veeco Bioscope II Life Science (with IOM Nikon TE2000)

Make: Veeco
Model: Bioscope II



Type of Experiments

Proposed Charges for Industry/ private institutes

Rs. 3500 * 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.

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 °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.



15. Confocal Laser Scanning Microscope

Make: Olympus
Model: Microscope FV 1000 SPD



Type of Experiments

Proposed Charges for Industry/ private institutes

Per Sample (Live Cell Imaging)

Rs. 4000 per sample per hour.

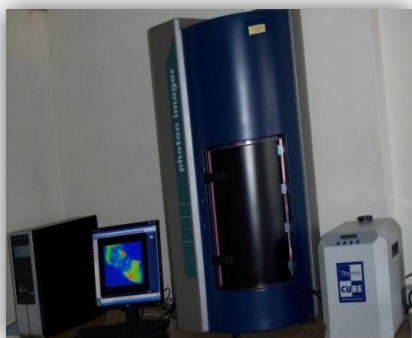
Fixed samples/Cells

Rs. 2000 per slide/sample

Controlled Environment Cell Growth Chamber for live cell imaging Spectral Fluorescent detector; Transmitted Light 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

16. Real Time In Vivo Optical Imaging (Biospace Measures, France)

Make: Biospace
Model: Photon Images PI0100002



Type of Experiments

Proposed Charges for Industry/ private institutes

Per animal/Single image acquisition

Rs. 4000

Continuous imaging

Rs. 6000 per hour

Controlled Environment Cell Growth Chamber for live cell imaging Spectral Fluorescent detector; Transmitted Light 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

17. Research Grade Rheometer

Make: Malvern
Model: Bohlin C-VOR150



Type of Experiments

Proposed Charges for Industry/ private institutes

Rs. 1000 per sample



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18. High Pressure Homogenizer

Make: Avestin
Model: Emulsified C-3



Type of Experiments

Proposed Charges for Industry/
private institutes

Rs. 1000 per sample

19. Zeta Sizer

Make: Malvern Instruments
Model: Nano ZS



Type of Experiments

Proposed Charges for Industry/
private institutes

Particle size

Rs. 1000 per sample

Zeta Potential

Rs. 1000 per sample

20. Semi Preparative HPLC

Make: Shimadzu
Model: Prominence



Type of Experiments

Proposed Charges for Industry/
private institutes

Method and Solvents to be
provided by user

Rs. 4000 per hour of instrument time



21. Preparative HPLC

Make: Shimadzu
Model: LC-8A



Type of Experiments

Proposed Charges for Industry/
private institutes

Method and Solvents to be
provided by user

Rs. 5000 per hour of instrument
time

22. Automated flash purification system

Make: Biotage
Model: Isolera-One



Type of Experiments

Proposed Charges for Industry/
private institutes

Method and Solvents to be provided
by user

Rs. 3000 per hour of instrument
time

23. Size Exclusion Chromatography

Make: Spectrum
Model: CF-2



Type of Experiments

Proposed Charges for Industry/
private institutes

Method and Solvents to be provided
by user

Rs. 3000 per hour of instrument
time



24. Freeze Dryer



Make: Virtus
Model: Benchtop K

Type of Experiments

Proposed Charges for Industry/
private institutes

Rs. 1000 per sample up to
100ml/24hr
or
Rs. 1000 hour of instrument time
whichever is more

25. Flow Cytometer



Make: Beckman
Model: Optima TL

Type of Experiments

Proposed Charges for Industry/
private institutes

Rs. 3000 per hour of instrument time

26. ULTRA CENTRIFUGE (Refrigerated)



Make: Millipore
Model: Guave Easy Cyte-8HT

Type of Experiments

Proposed Charges for Industry/
private institutes

Fixed Angle Rotor without Tubes Rs. 1500 per hr.

Fixed Angle Rotor with Tubes Rs. 2000 per hr.

Swing Bucket without Tubes Rs. 1500 per hr.

Swing Bucket with Tubes Rs. 2000 per hr.



27. CEM Liberty Microwave Peptide Synthesizer

Make: CEM Liberty
Model: 909600



Type of Experiments

Proposed Charges for Industry/
private institutes

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 peptides shall be provided by the user. Method for synthesis to be provided by user.)

Rs. 3500 per hour of instrument time.

28. CEM Parallel Microwave Synthesizer

Make: CEM Explorer
Model: 909155



Type of Experiments

Proposed Charges for Industry/
private institutes

Synthesis of organic compounds

(All chemicals and solvent shall be provided by the user. Method for synthesis to be provided by user.)

Rs. 2300 per hour of instrument time.

29. AAPTEC Peptide Synthesizer

Make: AAPTEC
Model: Focus XC 36AA



Type of Experiments

Proposed Charges for Industry/
private institutes

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 peptides shall be provided by the user. Method for synthesis to be provided by user.)

Rs. 2500 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 service tax @ 15% 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/private institutes.
6. The government academic institutes/nonprofit making government sponsored institute 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.



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13. The payments will be accepted vide DD only payable in favor of Director, NIPER payable at Chandigarh/ Mohali.
14. In case of concession charges request letter should be on original institute/ university letter head signed and stamped by HOD 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. No photo copy, scan copy, email copy or pen drive copy of letter head will be accepted.
15. No sample will be analyzed without advance payment.
16. 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.
17. The sample name/ batch no/ required analysis should be clearly mentioned on request letter and requisition form.
18. Samples submitted in violation of submission procedure will not be entertained.
19. Email address for communication with CIL will be cil@niper.ac.in. Phone numbers for communication will be +91 172 2292019 & +91 172 2292015
20. If payment should be made via online/ electronic transfer, details should be intimated by emailing at cil@niper.ac.in or posting hard copy at the correspondent address.



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Sector 67, S.A.S Nagar (Mohali) – 160 062, Punjab (India)

21. For online payment/ electronic transfer the detail are as follows:

Bank Name	State Bank of Patiala
Branch Name	NIPER Branch
Address	NIPER Campus, Sector – 67, SAS Nagar, Punjab, India
Account No.	55034549623 (DIRECTOR NIPER MAIN ACCOUNT NUMBER)
Branch Code	51018
IFSC Code	STBP0001018
MICR Code	160007063
Swift Code	STBPINBB167

22. Address for sample dispatch:

Mr. Vikas Grover,
Room No 106, A - Block,
NIPER, Sector 67,
Mohali- 160062

23. Address of correspondence:

Director,
NIPER, Sector 67,
Mohali- 160062