

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
SECTOR 67, PHASE X, S.A.S. NAGAR - 160 062
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Specialized Instruments and Services Available and Charges for the same w.e.f. May 16, 2011

<i>S. No</i>	<i>Instrument Facility</i>	<i>Type of Services Provided</i>	<i>Charges for Industry / private institutes.</i>
01	NMR SPECTROMETER Make: Bruker Model: AVANCE DPX -300 MHz & AVANCE III- 400 MHz	¹ H, ¹³ C, ¹⁵ N, ³¹ P, (With solvent CDCl ₃) D ₂ O Exchange etc. 1-D Normal Spectrum	Rs. 1000 per Spectrum or Rs. 1500 per hour of instrument time whichever is more
		¹ H, ¹³ C, ¹⁵ N, ³¹ P, (With solvent DMSO, MeOH & others) 1-D Normal Spectrum	Rs. 1200 per Spectrum or Rs. 1500 per hour of instrument time whichever is more
		2-D COSY , HMQC or others using Gradient	Rs.1500 per Spectrum or Rs. 1500 per hour of instrument time whichever is more
		2-D Correlation Spectrum (COSY, NOESY, ROESY, TOXCY etc)	Rs.1500 per Spectrum or Rs. 1500 per hour of instrument time whichever is more
		DEPT 45, DEPT 90 & DEPT 135 (Combined)	Rs.2000 per Spectrum or Rs. 1500 per hour of instrument time whichever is more
02	LCMS ⁿ(n=9) with APCI/ ESI PROBE Make: Finnigan mat Model: LCQ	Direct Injection Mass	Rs. 1700 per Sample
		Direct Injection / MS-MS	Rs. 2500 per sample
		LCMS (Method to be Provided)	Rs. 2500 per Sample
		LC-MS / MS	Rs. 3500 per Sample

		(Method to be Provided)	
		Method Development	Rs. 3000 per hour
		Bio Works / Sequest	Rs. 4000 per Sample
03	LCMSⁿ (n=9) WITH APCI/ ESI PROBE Make: Thermo Model: LTQ-XL	Direct Injection Mass	Rs. 1700 per Sample
		Direct Injection / MS-MS	Rs. 2500 per sample
		LCMS (Method to be Provided)	Rs. 2500 per Sample
		LC-MS / MS (Method to be Provided)	Rs. 3500 per Sample
		Method Development	Rs. 3000 per hour
		Bio Works / Sequest	Rs. 4000 per Sample
04	HIGH RESOLUTION LCMS/MS MS Make: Bruker MS Model: maXis UPLC Make: Waters UPLC Model: Equity	DI MS	Rs. 8000
		LCMS (MS for one peak)	Rs.10000
		LCMS/MS (MS for one peak)	Rs. 12000
		Additional Charges	Included in above
		Additional Peak MS	
		Additional Peak MS/MS	
		CHN determination (Single Mass)	
		Protein sequencing	
05	GCMS Make: Shimadzu Model: QP-5000	GCMS in EI / CI mode	Rs. 1000 per Sample
		MS in EI / CI mode (Direct Injection)	Rs. 1000 per Sample
		Library Search	Rs. 200 per Peak
		Additional Peak Spectra	Included in Rs 1000
		Method Development	Rs. 2000 per Hour of Instrument time
		Column Changing Charges	Rs. 5000
06	GCMSⁿ (n=5) Make: Thermo	GCMS in EI / CI mode	Rs. 1000 per Sample
		MS in EI / CI mode	Rs. 1000 per Sample

	Make:Polaris-Q	(Direct Injection)	
		Library Search	Rs. 200 per Peak
		Additional Peak Spectra	Included in Rs 1000
		Method Development	Rs. 2000 per Hour of Instrument time
		Column Changing Charges	Rs. 5000
07	MALDI TOF – TOF MASS SPECTROMETER Make: Bruker Model: Ultraflex TOF/TOF	MALDI MS	Rs 5000 per Sample
		MALDI MS / MS	Rs 6000 per Sample
		Peptide Mass Fingerprinting	Rs 8,000 per Sample
08	GC with HEAD SPACE Make: Shimadzu Model: GC-17A/AOC5000	Qualitative Analysis	Rs 1000 per injection or Rs 1000 per hour of instrument time whichever is more
		Quantitative Analysis	Rs 1200 per injection or Rs 1200 per hour of instrument time whichever is more
		Standard Curve Single Element for Quantitative Analysis (Method to be provided)	Rs 3000 with 5 point curve
		Standard Curve each additional Element for Quantitative Analysis (Method to be provided)	Same as above
		Method Development	Rs 2000 per hour of Instrument time
09	HPLC Make: Shimadzu	Using C-18, C-8 or Phenyl Columns and UV/RI/ Fluorescence/ PDA detectors Analytical Qualitative	Rs. 800 per Sample or Rs. 800 per hour of instrument time whichever is more
		Using C-18, C-8 or Phenyl Columns and UV/RI/ Fluorescence/ PDA detectors Analytical Quantitative	Rs. 1000 per Sample or Rs. 1000 per hour of instrument time whichever is more
		Using ELSD detectors Analytical Qualitative	Rs. 1200 per Sample or Rs. 1200 per hour of instrument time whichever is more
		Using ELSD detectors Analytical Quantitative	Rs. 1500 per Sample or Rs. 1500 per hour of instrument time whichever is more

		Using Specialized Columns (a) Size exclusion analysis (b) Carbohydrate analysis	Rs. 2000 per Sample Rs. 2000 per Sample
		HPLC Method Development	Rs. 1500 per hour of instrument time
10	CAPILLARY ELECTROPHORIS Make: Beckman Model: P/ACE MDQ	Qualitative (Method to be Provided)	Rs. 1000 per Injection
		Quantitative (Method to be Provided)	Rs. 1200 per Injection
		Method Development	Rs. 2500 per Hour of Instrument Time
11	FTIR Make: NICOLET Model: Impect-410	Normal Spectrum	Rs. 500 per Spectrum
		Library Search	Rs. 200 per Search
12	FTIR with ATR & IR MICROSCOPE Make: Perkin Elmer Model: Synthesis Monitoring System	Normal Spectrum (per Spectra)	Rs. 500
		Synthesis Monitoring System SMS (per Spectra)	Rs. 500
		IR Microscope 1st Scan	Rs 1000
		IR Microscope additional Scan	Rs 200
		IR Microscope with Hot Plate	Rs 1500
		IR Microscope with polarizer 1st Scan	Rs 1500
		IR Microscope with polarizer additional Scan	Rs 500
13	UV / VIS SPECTROPHOTOMETER With DIODE ARRAY DETECTOR Make: BECKMAN Model: DU-7400	Normal Spectrum Qualitative	Rs. 500 per Spectrum
		Normal Spectrum Quantitative	Rs. 600 per Spectrum
14	UV / VIS Spectrophotometer Make: Shimadzu	Normal Spectrum Qualitative	Rs. 500 per Spectrum
		Normal Spectrum Quantitative	Rs. 600 per Spectrum

	Model: UV-2450		
15	FLUORESCENCE SPECTROMETER Make: Perkin Elmer Model: LS-50B	Normal Spectrum	Rs. 500 per Sample.
		Plate Reader	Rs. 1000 per Plate
16	FLUORESCENCE SPECTROMETER Make: Varian Model: CARY-Eclipse	Normal Spectrum	Rs. 500 per Sample.
		Plate Reader	Rs. 1000 per Plate
17	POLARIMETER Make: RUDOLPH Model: Autopol-IV	Specific Optical Rotation	Rs. 500 per Spectrum
		Optical Rotation	Rs. 500 per Spectrum
		Concentration	Rs. 500 per Spectrum
		Sample Preparation	Included in Rs 500.
18	CIRCULAR DICHROISM Make: Jasco Model: J-815	Normal Spectrum Qualitative	Rs. 500 per Spectrum
		Normal Spectrum Quantitative	Rs. 600 per Spectrum
19	ELEMENTAL ANALYSIS Make: Elementar Model: Vario EL	C, H, N & S.	Rs. 1500 per sample
20	TGA Make: Mettler Toledo Model: TGA/SDTA 851 ^e	Normal Spectrum	Rs. 1000 per Spectrum or Rs. 1000 per hour of instrument time whichever is more
21	DSC Make: Mettler Toledo Model: DSC 821 ^e	Normal Spectrum	Rs. 1500 per Sample or Rs. 1500 per hour of instrument time whichever is more
			Included in above
			Included in above

22	DSC Make: PerkinEmner Model: Diamond DSC	Normal Spectrum	Rs. 1500 per Sample or Rs. 1500 per hour of instrument time whichever is more
			Included in above
			Included in above
23	ATOMIC ABSORPTION SPECTROMETER Make: Analytic Gena Model: AAS 5EA	As, Ba, Cd, Cr, Hg, K, Mg Ni, Pb, Sb, Se, Mn, Fe, Cu, Na, K, Zn	Rs. 1000 per Element per Sample (Including Sample Preparation)
24	FREEZE DRYER (Lyophilizer) Make: Heto Model: FD-8-85	RBG Bottle 500 ml / 1000 ml	Rs 750 per sample up to 100ml / 24 hr.
		Tray (1 Nos.)	Rs 1500 / hr of instrument time
		Tray (2 Nos.)	Rs 2000 / hr of instrument time
25	FREEZE DRYER (Lyophilizer) Make: Heto Model: FD-1-110	RBG Bottle 500 ml / 1000 ml	Rs 750 per sample up to 100ml / 24 hr.
26	TITRATOR Make: Metrohm Model: 716 DMS Titrino	pH / pH stat measurement, Moisture , Potentiometric Titration	Rs. 200 per Sample or Rs. 200 per hour of instrument time whichever is more
27	ULTRA CENTRIFUGE (Refrigerated) Make: Beckman Coulter Model: Optima LE-80K	Fixed Angle Rotor without Tubes	Rs 1000 per hr.
		Fixed Angle Rotor with Tubes	Rs 1500 per hr.
		Swing Bucket without Tubes	Rs 1000 per hr.
		Swing Bucket with Tubes	Rs 1500 per hr.
28	POWDER XRD Make: Bruker Model: D8	Powder XRD	Rs.2000 per Spectrum or Rs. 2000 per hour of instrument time whichever is more

<u>Instructions for submitting the samples</u>	
1	<i>The above charges are for industry / private institutes.</i>
2	<i>The government academic institutes / non-profit-making government-sponsored institutes will be charged only half the charges indicated above.</i>
3	<i>The SME-Pharma will be charged only half the charges indicated in the list.</i>
4	<i>The charges will be 50 % more if analyses are to be performed on priority basis (results can be delivered though e-mail).</i>
5	<i>The charges for soft copy will be 25% extra.</i>
6	<i>The charges will be Rs. 100 per sample for e-mail.</i>
7	<i>Please add postage charges of Rs 100 if delivered by courier.</i>
8	<i>The payments will be accepted either by cash or vide DD payable in favor of <u>Director, NIPER</u> payable at Chandigarh / Mohali .</i>
9	<i>In the case of concession charges duly stamped letter on the Institutes letter head from HOD must accompany with the samples for universities /institutes and proof of SME for the industry. The letter should be addressed to Director, NIPER.</i>
10	<i>No sample will be analyzed without advance payment.</i>
11	<i>You may open an account with the institute to avoid any delay in analysis.</i>
12	<i>It is suggested to supply the samples for each instrument separately to avoid delay.</i>
13	<i>The sample name / batch no / required analysis should be clearly mentioned on the sample / request letter.</i>
14	<i>Solubility for NMR/ DIMS & method of analysis for all instruments should be supplied along with the samples.</i>
15	<i>Address for correspondence The Director, National Institute of Pharmaceutical Education & Research, Sector 67, S A S Nagar (Mohali) -160 062</i>