

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
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Specialized Instruments and Services Available and Charges for the same
Effective from August 18, 2009

<i>S. No</i>	<i>Instrument Facility</i>	<i>Location</i>	<i>Type of Services Provided</i>	<i>Charges for Industry / private institutes.</i>
01	NMR Spectrometer Bruker 300 MHz DPX / 400 MHz	A-103	¹ H, ¹³ C, ¹⁵ N, ³¹ P, (With solvent CDC13) D ₂ O Exchange etc. 1-D Normal Spectrum	Rs. 600 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
			¹ H, ¹³ C, ¹⁵ N, ³¹ P, (With solvent DMSO, MeOH & others) 1-D Normal Spectrum	Rs. 800 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
			2-D COSY , HMQC or others using Gradient	Rs.1000 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
			2-D Correlation Spectrum (COSY, NOESY, ROESY, TOXCY etc)	Rs.1000 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
			DEPT 45, DEPT 90 & DEPT 135 (Combined)	Rs.1200 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
02	NMR Spectrometer JEOL 60 MHz	A-106	1H (Each Spectra)	Rs 400
03	FT-IR NICOLET IMPECT-410	A-114	Normal Spectrum	Rs. 300 per Spectrum

			ATR	Rs. 600 per Sample
			Library Search	Rs. 100 per Search
04	FTIR with IR Microscope (Perkin Elmer)	A-114	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
05	UV / VIS Spectrophotometer DIODE ARRAY DETECTOR BECKMAN DU-7400	A-114	Normal Spectrum Qualitative	Rs. 300 per Spectrum
			Normal Spectrum Quantitative	Rs. 400 per Spectrum
06	POLARIMETER RUDOLPH	A-114	Specific Optical Rotation	Rs. 350 per Spectrum
			Optical Rotation	Rs. 350 per Spectrum
			Concentration	Rs. 350 per Spectrum
			Sample Preparation	*
07	ATOMIC ABSORPTION SPECTROMETER Elementar	A-109	As, Ba, Cd, Cr, Hg, K, Mg Ni, Pb, Sb, Se, Mn, Fe, Cu, Na, K, Zn	Rs. 800 per Element per Sample (Including Sample Preparation)
08	ELEMENTAL ANALYSIS Analytic Gena	A-110	C, H, N, S.	Rs. 300 per Element per Sample
09	TGA Mettler Toledo	A-110	Normal Spectrum	Rs. 500 per Spectrum or Rs. 1000 per hour of instrument time which ever is more
10	DSC Mettler Toledo	A-110	Normal Spectrum	Rs. 1000 per Sample or

				Rs. 1000 per hour of instrument time which ever is more Additional: Rs. 100 for every software i.e. Glass Transition, Glass Transition Relax, Content, Crystal lenity, Conversion, Enthalpy, Specific Heat, Purity, Purity Plus etc. Additional Printout: Rs 50 per page.
11	FLUORESCENCE SPECTROMETER Perkin Elmer	A-106	Normal Spectrum	Rs. 300 per Sample.
			Plate Reader	Rs. 400 per Plate
12	Titrator Metrohm	A-114	pH / pH stat measurement, Moisture , Potentiometric Titration	Rs. 100 per Sample or Rs. 100 per hour of instrument time which ever is more
13	Ultra Centrifuge (Refrigerated) Model : Beckman Coulter LE-80K	A-113	Fixed Angle Rotor without Tubes	Rs 500 per hr.
			Fixed Angle Rotor with Tubes	Rs 750 per hr.
			Swing Bucket without Tubes	Rs 500 per hr.
			Swing Bucket with Tubes	Rs 750 per hr.
14	Freeze Dryer (Lyophilizer) Model : Heto FD-8-85	A-113	RBG Bottle 500 ml / 1000 ml	Rs 500 per sample up to 100ml / 24 hr.
			Tray (1 Nos.)	Rs 1000 / hr of instrument time
			Tray (2 Nos.)	Rs 1500 / hr of instrument time

15	Freeze Dryer (Lyophilizer) Model : Heto FD-1-110	A-113	RBG Bottle 500 ml / 1000 ml	Rs 500 per sample up to 100ml / 24 hr.
16	LCMS APCI/ ESI Probe Finnigan Mat	A-106	Direct Injection Mass	Rs. 1200 per Sample
			Direct Injection / MS-MS	Rs. 2000 per sample Rs.200 for additional MS
			LCMS (Method to be Provided)	Rs. 2000 per Sample for the first peak and Rs. 200 for additional peak or Rs. 2000 per hour of instrument time which ever is more
			LC-MS / MS (Method to be Provided)	Rs. 3000 per Sample
			Method Development	Rs. 2000 per hour
			Bio Works / Sequest	Rs. 3000 per Sample

17	GC with Capillary Column Shimadzu	A-114	Qualitative Analysis	Rs 500 per injection or Rs 1000 per hour of instrument time which ever is more
			Quantitative Analysis	Rs 700 per injection or Rs 1200 per hour of instrument time which ever is more
			Standard Curve Single Element for Quantitative Analysis (Method to be provided)	Rs 2000 with 5 point curve
			Standard Curve each additional Element for Quantitative Analysis (Method to be provided)	Rs 1500 with 5 point curve
			Method Development	Rs 1000 per hour of Instrument time
			If no of injections are more then 50 (Single Lot)	Rs 350 per injection or Rs 700 per hour of instrument time which ever is more
18	GC with Capillary Column Head Space Shimadzu	A-114	Qualitative Analysis	Rs 700 per injection or Rs 1000 per hour of instrument time which ever is more
			Quantitative Analysis	Rs 800 per injection or Rs 1200 per hour of instrument time which ever is more
			Standard Curve Single Element for Quantitative Analysis (Method to be provided)	Rs 2000 with 5 point curve
			Standard Curve each additional Element for Quantitative Analysis (Method to be provided)	Rs 1500 with 5 point curve
			Method Development	Rs 1200 per hour of Instrument time
			If no of injections are more then 50 (Single Lot)	Rs 500 per injection or Rs 700 per hour of instrument time which ever is more

19	GCMS Shimadzu QP-5000	A-114	GCMS in EI / CI mode	Rs. 800 per Sample
			MS in EI / CI mode (Direct Injection)	Rs. 800 per Sample
			Library Search	Rs. 100 per Peak
			Additional Peak Spectra	Rs. 100 per Peak
			Method Development	Rs. 1500 per Hour of Instrument time
			Column Changing Charges	Rs. 5000
20	Capillary Electrophoresis	A-111	Qualitative (Method to be Provided)	Rs. 600 per Injection
			Quantitative (Method to be Provided)	Rs. 800 per Injection
			Method Development	Rs. 1500 per Hour of Instrument Time
			Method Development	Rs. 1500 per Hour of Instrument Time
21	MALDI TOF – TOF Mass Spectrometer	A-111	MALDI MS	Rs 6000 per Sample
			MALDI MS / MS	Rs 8000 per Sample
			Peptide Mass Fingerprinting	Rs 10,000 per Sample
22	Powder XRD	A-111	Powder XRD	Rs.1200 per Spectrum or Rs. 1200 per hour of instrument time which ever is more
23	High Performance Liquid Chromatography (HPLC)	A-105	Using C-18, C-8 or Phenyl Columns and UV/RI/ Fluorescence/ PDA detectors Analytical Qualitative	Rs. 600 per Sample or Rs. 600 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. 800 per Sample or Rs. 800 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) Protein analysis (b) Size exclusion analysis (c) Carbohydrate analysis	Rs. 2500 per Sample Rs. 2500 per Sample Rs. 2500 per Sample
			HPLC Method Development	Rs. 1500 per hour of instrument time

24	High Performance Thin Layer Chromatography (HPTLC) Camag		Analytical Qualitative Analytical Quantitative HPTLC method Development	Rs. 500 per Sample Rs. 700 per Sample Rs. 1000 per Hour of Instrument time
25	Gas Liquid Chromatography (GLC) Fison		Packed Columns Analytical Qualitative Analytical Quantitative	Rs. 300 per Sample Rs. 400 per Sample
			Capillary Columns Analytical Qualitative Analytical Quantitative	Rs. 500 per Sample Rs. 700 per Sample
26	Scintillation β and γ counters			Rs. 300 per Hour of Instrument Time
27	Ultracentrifuge			Rs. 200 per Hour of Instrument Time
28	High Speed Refrigerated Centrifuge			Rs. 150 per Hour of Instrument Time
29	Speed Vac.			Rs. 150 per Hour of Instrument Time
30	Lyophilizer		Capacity: 3X 0.12 m ² Tray Area	Rs. 800 per Hour of Instrument Time
31	Spheronizer and Extruder		50-100g Batch Size	Rs. 2000 per 8 Hour day

32	Neocota 15A		2-3 Kg Batch Size	Rs. 4000 per 8 Hour day
33	Glatt Multipurpose Equipment		2-3 Kg Batch Size	Rs. 5000 per 8 Hour day
34	Accessories equipment e.g. Kalweka multipurpose units (Karnavati) Single Punch Machine (Cadmach) Fluid Bed Dryer (Sapphire), Capsule Filling Machine (PAM), Strip Packing Machine, Ampoule / Vial washing and filling machine Sparklers filter (Pharma. Lab.), Sifter multimill, colloid mill and other processing equipment, dissolution / disintegration / hardness tester, moisture balance and other quality control equipment's.			*

35	<p>Actual toxicity study (Species : Mouse) Oral, Intraperitoneal and Subcutaneous (for each route) (a) Limit Test, One Dose (5 Males + 5 Females) (b) 4 Dose Level (Control, Low, Intermediate & High Dose), (5 Males + 5 Females) (c) 4 Dose Level (Control, Low, Intermediate & High Dose) (10 Males + 10 Females)</p> <p>For additional Dose (for each Route) One Dose (5 Males + 5 Females)</p> <p>Intravenous (Species : Mice) (a) Limit Test, One Dose (5 Males + 5 Females) (b) 4 Dose Level (Control, Low, Intermediate & High Dose) (5 Males + 5 Females) (c) 4 Dose Level (Control, Low, Intermediate & High Dose) , (10 Males + 10 Females)</p> <p>For additional Dose One Dose (5 Males + 5 Females)</p>	<p>Rs. 5,000 Rs. 20,000 Rs. 25,000 Rs. 6,000 Rs. 6,000 Rs. 24,000 Rs. 30,000 Rs. 6,000</p>
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36	Pyrogen Testing	*
37	Behavioral Pharmacological Screening	*
38	Biochemical Pharmacological Estimation (Auto analyzer)	*
39	Anti-inflammatory Screening	*
40	Radioreceptor assays	*
41	Subacute toxicity testing (Rats and Mice)	*
42	Conscious rat and mice BP recording	*
43	Hemodynamics in anaesthetized rodents & dogs	*
44	Screening on isolated tissues (Smooth, cardiac and skeletal)	*
45	Body Temperature in Rodents and Mice	*

46	<p>Actual toxicity study (Species : Rat)</p> <p>Oral, Intraperitoneal and Subcutaneous (for each route)</p> <p>(a) Limit Test, One Dose (5 Males + 5 Females)</p> <p>(b) 4 Dose Level (Control, Low, Intermediate & High Dose) (5 Males + 5 Females)</p> <p>(c) 4 Dose Level (Control, Low, Intermediate & High Dose) , (10 Males + 10 Females)</p> <p>For additional Dose (for each Route)</p> <p>One Dose (5 Males + 5 Females)</p> <p>Intravenous</p> <p>(a) Limit Test, One Dose (5 Males + 5 Females)</p> <p>(b) 4 Dose Level (Control, Low, Intermediate & High Dose), (5 Males + 5 Females)</p> <p>(c) 4 Dose Level (Control, Low, Intermediate & High Dose) (10 Males + 10 Females)</p> <p>For additional Dose</p> <p>One Dose (5 Males + 5 Females)</p>	<p>Rs. 6,000</p> <p>Rs. 25,000</p> <p>Rs. 30,000</p> <p>Rs. 7,000</p> <p>Rs. 7,000</p> <p>Rs.30,000</p> <p>Rs.35,000</p> <p>Rs. 7,000</p>
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<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 institute will be charged only half the charges indicated above.</i>
3	<i>The SME- Pharma will be charged only half the charges indicated in list.</i>
4	<i>The charge 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 will be 25 % more if normal spectra results are to be delivered by e-mail.</i>
6	<i>Please add postage charges of Rs 50 if delivered by courier.</i>
7	<i>The payments will be accepted vide DD only payable in favor of <u>Director, NIPER</u> payable at Chandigarh / Mohali.</i>
8	<i>In case of concession charges duly stamped letter on 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>
9	<i>No sample will be analyzed without advance payment.</i>
10	<i>You may open an account with the institute to avoid any delay in analysis.</i>
11	<i>It is suggested to supply the samples for each instrument separately to decrease the analysis time.</i>
12	<i>The sample name / batch no / required analysis should be clearly mentioned on sample / requisition form.</i>
*	<i>Charges will be quoted on request on a case to case basis.</i>