

INSTRUMENT FACILITIES & CHARGES @ NIPER GUWAHATI

Sr.No	Instrument	Models	Make	Types of the experiments/ Chargeable unit	Price (GST 18 % Extra to be added with Total Charge)			Remark
					Academics (INR)	Startups (INR)	Industry (INR)	
1	Triple quadrupole LC-MS/MS	Xevo TQ-XS, Water		ESI/APCI-MS analysis or MS/MS analysis of purified compound only Quantity: 1-2 mg Solubility: Methanol, acetonitrile or water Resolution: Low	500	500	900	
				Quantitative LC-MS or LC-MS/MS method development, validation 5-10 mg of sample. Information about samples and matrix if any. Solubility: Methanol, acetonitrile or water	1500-per hour	1500-per hour	2000 per hour	
2	GC-MS	Intuvo 9000GC System & 5977B GC/MSD, Agilent		EI-MS (Direct Insertion probe)	500	500	900	
				GC-MS (Qualitative)	1000	1000	1500	
				GC-MS (Quantitative)	1500 per hour	1500 per hour	2000 per hour	
3	Analytical HPLC with DAD, FLD, ECD detector	UHPLC 3000 Thermo Scientific and Agilent		Each sample (Method to be provided)	300	300	500	
4	Analytical HPLC with Fraction Collector, DAD, and CAD detector	Ultimate 3000 Thermo Scientific		Each Sample (Method to be provided by user)	3000	3000	3200	

5	Analytical HPLC	Thermo Scientific and Agilent		Validation	500 per hour	800 per hour	800 per hour	
6	Flash Chromatography	Isolera	Biotage, Swedan	Quantitative analysis/ Sample/ 2 Hour	4,000	4,000	4,200	
7	Differential Scanning Calorimetry (DSC)		Mettler Toledo	Temperature range : Ambient to 350 deg Centigrade / Hour	500	500	700	
8	Thermo gravimetric Analysis (TGA)	TGA-2	Mettler Toledo	Temperature range : Below ambient	Depending upon type of sample			
9	FT-NIR	Spectrum Two	Perkin Elmer	Normal spectrum/ Hour	300	300	500	
	FT-IR	Alpha 2	Bruker	Normal spectrum/ Hour	300	300	500	
10	Double Beam UV Spectrophotometer	UV2600	Shimadzu	Qualitative Quantitative/ Hour	300	300	500	
11	Nano spray dryer	B-90	BÜCHI	Aqueous sample/ Hour	1200	1200	1200	
				Non aqueous sample/ Hour	2800	2800	3000	
				Method development/ Hour	4700	4700	4900	
12	Freeze Dryer (Lyophilizer)	L-300	BÜCHI	Every hour	200	200	400	
13	Particle size analyzer (Zeta potential)	ZEN3600	Malvern	Particle size and zeta potential/ Sample	500	500	600	
14	Moisture Analyzer	HE 73	Mettler Toledo	Moisture content/ Sample	200	200	400	
15	Density Meter	DMA 501	Anton Paar	Simple density/ Sample	500	500	700	
16	Tap Density Meter	TD 1025	Lab India	Each Sample	250	250	350	
17	Ultra Centrifuge	OPTIMA MAX-XP	Beckman Coulter, USA	Each Run	500	500	1000	

18	Karl Fischer Titrator	V20S	Mettler Toledo	Water content/ Sample	400	400	800	
19	Nanodrop	Nanodrop-1	Thermo Fisher	Each sample	400	400	800	
				Each kinetic studies	600	600	1000	
20	Fat Analyzer (Extraction System)	B-811 LSV	Buchi	Depending upon the type of sample	On request			
21	Digital pH-Meter	Seven Compact S210	Mettler Toledo	p ^H measurement	NC			
22	pH-Meter	Orion Star 111	Thermo Scientific					
23	pH-Meter	S210-kit	Mettler Toledo					
24	pH-Meter	Thermo-STAR A115 Orion Star						
25	Vacuum Concentrator	Concentrator Plus	Eppendorf Germany	Each Hour	60	60	90	
26	N ₂ Concentrator			Each Hour	100	100	300	
27	Rotary Evaporator	RV 10 DS 96	Thermo fisher	Each Hour	50	50	100	
28	Hot Melt Extruder	HAAKE	Thermo fisher		On request			
29	Vacuum Pump	LABOPORT N 810	KNF, Germany		NC			
30	Multiposition (10) Magnetic Stirrer	RT10	IKA					
31	Digital Thermometer	ST-92383B	ACETEQ					
32	Vacuum Filtration Assembly							
33	Vernier Caliper Digital Zenith							

	India				
34	Laboratory Vortex Shaker	IKA, Vortex-2	IKA		
35	Magnetic stirrer with ceramic hot plate	CMAG HS7 digital	IKA		
36	Magnetic stirrer with ceramic hot plate and timer	CMAG HS7 control	IKA		
37	Magnetic stirrer with heating	Rct Basic Package	IKA		
38	Digital Weighing Balance	ME204	Mettler Toledo		
39	Weighing Balance	Sartorius-BSA 223 S	Sartorius		
40	Semi Micro-Balance	MS105DV	Mettler Toledo		
41	Magnetic Stirrer with hotplate	RCT Basic	IKA		
42	Stirrer heating, pH, weigh fn	RET Control Visc	IKA		
43	Multi position hot plate and magnetic stirrer	RT 5 S000	IKA		
44	Vortex mixer with PCR plate	MS 3 Digital	IKA		
45	Electronic overhead stirrer for high viscous samples	Eurostar 20 digital	IKA		
46	Electronic overhead				

	stirrer for low viscous samples	Microstar 7.5	IKA					
47	Lab Portable Stirrer without heating with battery	Topolino Mobile	IKA					
48	Digital Vortex Mixer	F202A0270CP	Cole palmer					
49	Homogenizer	T-25 digital ultra turrax	IKA	Depending upon the type of sample	On request			
50	High speed homogenizer	T10 Basic ultra Turrax	IKA	Depending upon the type of sample				
51	Mini Laboratory Centrifuge	Minispin plus	Eppendorf		NC			
52	Centrifuge	5810R	Eppendorf					
53	Refrigerated Incubator Shaker	Innova42R	Eppendorf					
54	Probe Sonicator		Sonics					
55	Ultra Sonicator-Wensler-LMUC-6							
56	Ultrasonic Cleaner	WW-08895-93	Cole palmer					
57	Rotational viscometer	VL321003	Fungilab					
58	Tablet Disintegration Machine	Dt 1000	Lab India	Each Sample	300	300	500	
59	Tablet Friability Tester	FT 1020	Lab India	Each Sample	300	300	500	
60	3D-Printer			Without Design & Consumables	600	400	1200	
				With Design & Consumables (Depending upon the type of work)	On request			

61	Dissolution Test Apparatus			Each Sample	150	150	250	
62	Automatic Tablet Hardness Tester	DS 8000	Lab India	Each Sample	300	300	500	
63	Tablet compression machine			Every hour	750	750	900	
64	Tablet coating machine and compressor	TH 1050S	Lab India	Each Sample	300	300	500	
65	Fluidized bed dryer and processor			Each Sample	300	300	500	
66	Stability chamber and photostability chamber			Depending upon the sample type and Time required	On Request			
67	Rapid Mixer granulator			Every hour	1000	1000	1200	
68	Serological Water bath	WATER BATH MEDIUM DI	Equitron	Every hour	100	100	120	
69	-80°C Ultra low temperature freezer	F740	Eppendorf	Tray (12X18 inch)/ month	2000	2000	2200	
70	FREEZER (4°C)	FKG400	CELFRO ST	Tray (12X18 inch)/ month	200	200	220	
71	Deep Freeze (-20°C)	EFS 340	Elanpro	Tray (12X18 inch)/ month	500	500	700	
72	Laboratory hot air oven	Oven 125 Basic dry	IKA		NC			
73	Hot air oven	Orion Star 111	Thermo Scientific		NC			
74	Tube rotator	Loopstar digital	IKA		NC			

75	Autoclave	SLEFA180L	EQUITR ON					
76	Vacuum Pressure Pump Kit	VACMPKIT	Millipore					
77	Water Bath	ICC Control Pro20C	IKA					
78	Ice Flaker	FIM100	BioBase					
79	Water Purification System Type-I & Type-II	Advantage A 10	Milli-Q					
80	Small Animal Imaging System	VEVO LAZR-X	Fujifilm Visual Sonics	Depending upon the type of study the charges may change (Each animal)	2000	2000	3000	
81	Fl Auto 2 Imaging System	EVOS-XL	Imaging Sonics	Each Sample	1000	1000	1500	
				For Fluorescence study	2000	2000	2500	
82	IVC System	Techniplast		Depending upon the type of sample	On request			
83	Chemiluminescence System	FUSION FX2	VILBAR		400	400	600	
84	Cryogenic LN2 System	Haier			On request			
85	Multimode Reader	Molecular Devices LLC	Spectramax i3x	Each Run	300	300	500	
86	Plathysmometer	7140	UgoBasile -7140	Depending upon the type of sample	On request			
87	Anymaze Video tracking Software with Computer and Camera							
88	Slide Cabinet & base stand		Equitron					

89	Animal Weighing Balance with Data Writer	ME802/RSP28	Mettler Toledo					
90	Dancing Rocker	Rocker 2D Digital	IKA					
91	Lab Mill and Grinder	MF10BS000	IKA	Each Kilogram	200	200	350	
92	Rapid Mixer granulator			Every hour	1000	1000	1200	
93	Sieve Shaker			Each sample	300	300	500	
94	Sieve for Lab Mill	MF 0.5	IKA		NC			
95	Horizontal Shaker Incubator			Depending upon the type of sample	On request			
96	PAM (Pressure application management)	38500	UgoBasile					
97	Mice Rota Rod	47600	UgoBasile					
98	Animal Anaesthesia System	UNVI6-14825	UNO					
99	Tail Flick Unit	37360	UgoBasile					
100	Animal Mazes		UgoBasile					
101	Hot & Cold Plate	35150-001	UgoBasile					
102	Planter Test (Hargreaves Test)		UgoBasile					
103	Electronic Von Frey	38450-001	UgoBasile					
104	Horizontal Electrophoresis	Wide MiniSubCell GT- 1	BioRad	Each run	1000	1000	1500	
105	Mini Protein	TransBlot	BioRad	Each run	1000	1000	1500	

	Tetra Cell							
106	RT PCR (0.2ml QPCR System)	Quantstudio5	Applied BioSystem	Every hour	500	500	750	
107	Arktik Thermo cycler 96 well block			Each run	100	100	200	
	PCR Gradient Thermal cycler			Every hour	100	100	200	
108	Gel Documentation System	Uvitec UK		Every hour	100	100	200	
109	Multi parametric Monitoring System for ECG, EEG, EMG, NIBP for small animals	PowerLab26T	AD Instruments	Depending upon the type of sample	On request			
110	Flow Cytometry	AttuneNXT	Thermo Fisher	Each sample	1000	1000	1500	Reagent cost to be added if provided by NIPER
111	Light & Dark Box Maze for mice & rat			Depending upon the type of sample	On request			
112	Animal Cage Change Station	9CS482TRNM	ARIA					
113	IVC Racks for Mice & Rat							
114	Flexivent							
115	Rabbit cages							
116	Rat cages							
117	Stareotaxic without U frame,		Gentec					

118	Homogenizer	T10 Basic Ultra Turrax	IKA					
119	5 Part Differential Hematology Analyzer	Advia2120i	Siemens	Each Sample (charge may vary depending upon the samples)	500 to 2500			
120	Inverted Tissue Culture Microscope	DMi1	Leica	Each Sample	500	500	800	
121	Automatic Cell Counter			Depending upon the type of sample	On request			
122	Cryomicrotome	CMI1950UV	Leica	Each Sample (charge may vary depending upon the samples)	500 to 2500			
123	Confocal Work station	TCS-SP8	Leica	Live Cell Imaging / Sample	3000	3000	4000	
				Fixed Cell Imaging / Sample	2000	2000	3000	
124	Grip Strength Meter	47200	UgoBasile	Depending upon the type of sample	On request			
125	Analgesy Meter	37215	UgoBasile					
126	Tissue Lyser II System		Qiagen	Each Tissue	200	200	400	
127	Fogger Jet	PLA004	Himedia	Depending upon the type of sample	On request			
128	ERS Volt-Ohm Meter	ERS-2	Milliq Millicell		NC			
129	Electro Convulsometer	57800	UgoBasile	Depending upon the type of sample	On request			
130	Rat RotaRod	47700	UgoBasile					
131	GentleMACS Dissociator,		Miltenyi Bioteck					
132	Fluorescence Microscope	Celleste	Thermo Fisher					Every Hour
133	Tissue Embedding Station	Histostar	Thermo Scientific	Depending upon the type of sample	On request			
134	Vantilator Animal	RV01	Rovent Jr					

135	Biosafety Cabinet	TypeA2 ClassII, 1384	Thermo Scientific	Every Hour	50	50	100	
136	CO ₂ Incubator	CO17GM	Eppendorf	Each Day/ Sample	100	100	200	
137	Colonoscopic Exam & Biopsy in Mice & Rat	TP100; PR6765	STORZ	Depending upon the type of sample	On request			
138	Colorimeter			Each Sample	50	50	100	
139	Sensor Temperature PT 1000				NA			
140	Water Jacketed CO ₂ Incubator Including 2KVA Online UPS			Each Day/ Sample	50	50	100	
141	Dehumidifier to controlled the relative humidity			Per hour	50	50	100	
142	Genei Vertical Midi Gel System			Each Run	100	100	200	
143	Genei Incubator Orbital Shaker			Per hour	50	50	100	
144	Genei Midi-subsystem			Each Run	100	100	200	
145	Genie Gel Developing Tray with Gel Holder				NA			
146	Genie 320 Transiluminator			Every use	50	50	100	
147	Genie Imported Face Shield				NA			
148	Western Blotting Apparatus with power supply			Each Run	1000	1000	1500	
149	Lite F2148X2, Fixed Angle			Each Spin	50	50	100	

	Rotor							
150	M20 Microplate Rotor includes 2 buckets, 2 adapters			Each Spin	50	50	100	
151	Bursting strength tester			Each sample	100	100	200	

Newly added instruments:

Sr. No.	Instrument	Model	Make	Types of the experiments/ Chargeable unit	Price (GST 18 % Extra to be added with Total Charge)				Remark
					Academics (INR)		Startups/Govt. Organization (INR)	Industry (INR)	
					For institutions in Northeast India	For institutions outside Northeast India			
152	Powder XRD	Empyrean (Emp 3)	Malvern Panalytical		500	500	800	800	Per sample
153	Field Emission Scanning Electron Microscope (FESEM) with EDS	Gemini SEM 360	Carl Zeiss		1500	1500	2000	2000	Per hour
154	400 MHz NMR spectrometer	Avance Neo	Bruker	1D ¹ H NMR, ¹⁹ F NMR, ³¹ P NMR	400	480	1200	2000	Per measurement
				2D COSY NMR, ¹³ C NMR	800	960	2400	4000	Per measurement

				HSQC, HMBC, NOESY, ROESY etc.	1000	1200	3000	5000	Per measurement
				Solvent charges	100 for CDCL ₃ and 200 for DMSO, CD ₃ OD & D ₂ O	120 for CDCL ₃ and 240 for DMSO, CD ₃ OD & D ₂ O	300 for CDCL ₃ and 600 for DMSO, CD ₃ OD & D ₂ O	500 for CDCL ₃ and 1000 for DMSO, CD ₃ OD & D ₂ O	Per sample
155	600 MHz NMR spectrometer	Avance Neo	Bruker	1D 1H NMR, 19F NMR, 31P NMR	500	600	1500	2500	Per measurement
				2D COSY NMR and 13C NMR	1000	1200	3000	5000	Per measurement
				HSQC, HMBC, NOESY, ROESY etc.	1250	1500	3750	6250	Per measurement
				Solvent charges	100 for CDCL ₃ and 200 for DMSO, CD ₃ OD & D ₂ O	120 for CDCL ₃ and 240 for DMSO, CD ₃ OD & D ₂ O	300 for CDCL ₃ and 600 for DMSO, CD ₃ OD & D ₂ O	500 for CDCL ₃ and 1000 for DMSO, CD ₃ OD & D ₂ O	Per sample

SI No	Instrument	Model	Make	Type of experiment	Price	Remarks
156	Laser engraver (CO2) Max Power: 30 W	JARC CO2 RF JET 0403	JARC TEKNOLOGY	Depending upon the sample type	On request	Contact person: Mayur Krishna Das JTA, Department of Medical Devices mayur@niperguwahati.in Ph: 8638569234 <ul style="list-style-type: none"> Consumables cost users have to bear themselves

Note: *NC-Not chargeable