

Instrumentation Facility User Charges

Department of Chemistry - IISER Tirupati

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S.No.	Equipment Name	Type of Samples	List of Measurements / Experiments	External Academic institutions	Govt. Organizations	Industries/Other.	Instrument Working Status	Faculty – In-charge	Faculty- In-charge Mail Id	Technical Staff In-charge	Technical Staff In-charge- Mail ID
1	NMR 400 MHz (AVANCE NEO AV4400/ Bruker)	Liquid Samples and Standards Parameters	Nuclei 1D - 1H experiment	250 per sample	300 per sample	600 per sample	Working	Dr. Gopinath Purushothaman	gopi@iisertirupati.ac.in	K Vamsi	kvamsi@iisertirupati.ac.in
			Nuclei 1D - 13C experiment (1 Hour)	750 per sample	800 per sample	1500 per sample					
			19F/31P,/11B/DEPT/2H/1D NOE (per each peak)	300 per sample	400 per sample	1200 per sample					
			Other Nuclei 31P - 15N (other than the above-mentioned Nuclei) subjected to scan max 30 min min	750 per sample	800 per sample	1500 per sample					
			Nuclei 2D experiments COSY/ROSEY/NOESY/HMBC/HSQC etc	1200 per sample	1500 per sample	3000 per sample					
			High and Low-Temperature Experiments (-60 degrees to +120 degrees) for 1H	600 per sample and each temperature	800 per sample and each temperature	2000 per sample and each temperature					
			1. Users may provide their own solvent (500 µL per sample). In such cases, solvent charges will not apply. 2. If Solvent is not provided In addition to the above, solvent charges are extra (per sample) at actuals and subjected to availability of solvents CDCl₃ - 250/- DMSO-d₆ - 450/- D₂O - 550/- MeOD - 950/- 3. Other deuterated solvents are subject to availability 4. Sample requirement: For 'H NMR: 5–10 mg For other nuclei: 15–25 mg 5.Additional charges will apply for extra scans. 6. The above charges are applicable only for providing the raw NMR data.								
2	High Resolution Mass Spectrometer (Agilent 6545XT Advance Bio LC/Q-TOF)	Liquid Samples	ESI-MS	600 per sample	700 per sample	1000 per sample	Working	Dr. Gopinath Purushothaman	gopi@iisertirupati.ac.in	M Satish	satishmutyam@iisertirupati.ac.in
			ESI-MS/MS	600/peak	700/peak	1500/peak					

			UPLC-MS/MS	2500/- per injection (up to 30 min run)*	3000/- per injection (up to 30 min run)*	5000/- per injection (up to 30 min run)*					
			UPLC-MS/MS	3000/- per injection (up to 30 min run)*	3500/- per injection (up to 30 min run)*	6000/- per injection (up to 30 min run)*					
			1. An additional 2000 will be charged for every 30 minutes beyond the initial 30 minutes. 2. Only C18/C8 columns are provided for LC-MS analysis. If any specific column is required for analysis, the user must provide it.								
3	Field Emission Scanning Electron Microscope (FESEM) equipped with EDX and Detectors: Inlens SE, CL, and BSD. (Gemini 560/ Zeiss)	Solids / Glass Slides	FE-SEM Imaging	700 per sample	800 per sample	2500 per sample	Working	Dr. Aravindan	aravindan@iisertirupati.ac.in	C Geetha	cgeetha@iisertirupati.ac.in
			Only EDX	400 per sample	500 per sample	1000 per sample					
			FE-SEM + EDX	900 per sample	1000 per sample	3000 per sample					
4	MALDI Q-TOF (Rapiflex MALDI-TOF/TOF MS SYSTEM / BRUKER)	Solids/Liquids	Intact Mass - upto 6Kda -Only MS	800 per sample	1000 per sample	2000 per sample	Working	Dr. Shibdas Banerjee	shibdas@iisertirupati.ac.in	K Vamsi	kvamsi@iisertirupati.ac.in
			Intact Mass - upto 40Kda -Only MS	1000 per sample	1200 per sample	2500 per sample					
			Intact Mass - upto 200Kda -Only MS	1200 per sample	1500 per sample	3000 per sample					
			Peptide Mass Fingerprinting	1200 per sample	1500 per sample	3000 per sample					
			MS/MS per Precursor	800 per Precursor	1000 per Precursor	2000 per Precursor					
5	Circular Dichroism Spectrometer (JASCO 1500)		Liquids / Solids/ Thin Films	400 per sample	500 per sample	2000 per sample	Working	Dr. Jatish Kumar	jatish@iisertirupati.ac.in	Chemistry Technical Staff Details for Common Instruments	Email ID
6	Analytical HPLC (HPLC with PDA Detector E2695/Waters)	Liquids/Solids	Upto 30 min run time (Method to be provided)	1000 per sample	1500 per sample	2000 per sample	Working	Dr. Gopinath Purushothaman	gopi@iisertirupati.ac.in	K Vamsi	kvamsi@iisertirupati.ac.in
			1. Only C18 and C8 column is available; maximum run time is 30 minutes per sample. Additional Charges Applicable for additional run time 2. Standard methods shall be used for analysis. Alternatively, user-provided methods will be accepted, subject to a maximum run time of 30 minutes. 3. HPLC with PDA							M Satish	satishmutyam@iisertirupati.ac.in
7	Analytical HPLC (Shimadzu)	Liquids/Solids	Upto 30 min run time (Method to be provided)	1000 per sample	1500 per sample	2000 per sample	Working	Dr. E. Balaraman	eb.raman@iisertirupati.ac.in	C Geetha	cgeetha@iisertirupati.ac.in

			1. Only C18 and C8 column is available. Additional Charges Applicable for additional run time 2. Standard methods shall be used for analysis. Alternatively, user-provided methods will be accepted, subject to a maximum run time of 30 minutes. 3. HPLC with PDA & RID							Sai Vatturi	saivatturi@labs.iisertirupati.ac.in
8	Gas Chromatography Mass Spectroscopy - GCMS (Single Quad EI) - (Agilent) G7078BA-5977B Inert Plus MSD turbo EI/CI Bundle)	Liquids/Solid Samples (Qualitative Analysis)	Upto 30 min run time (Method to be provided)	600 per sample	800 per sample	1500 per sample	Working	Dr. Sudipta Roy / Dr. E. Balaraman	roy.sudipta@iisertirupati.ac.in / eb.raman@iisertirupati.ac.in	Kushwanth A	kushwanthagarala@labs.iisertirupati.ac.in
			1. Only HP-5MS column is available; maximum run time is 30 minutes per sample. 2. Standard methods shall be used for analysis. Alternatively, user-provided methods will be accepted, subject to a maximum run time of 30 minutes.							Srinivasulu T	srinivasuluhota@labs.iisertirupati.ac.in
										Chemistry Department Office	Chemistry-Office@labs.iisertirupati.ac.in
9	Gas Chromatography (Agilent 8890 GC System)	Liquids/Solid Samples	Run time upto 30 min with HP-5MS column	1000 per sample	1200 per sample	2000 per sample	Working	Dr. E. Balaraman	eb.raman@iisertirupati.ac.in		
				1000 per sample	1500 per sample	2000 per sample					
10	High Resolution Mass Spectrometer (Thermo-Q Exactive Elite Orbitrap)	Liquid Samples	ESI-MS	600 per sample	700 per sample	1000 per sample	Currently Under Maintenance	Dr. Shibdas Banerjee	shibdas@iisertirupati.ac.in		
			ESI-MS/MS	600/peak	700/peak	1500/peak					
			UPLC-LS/MS	2500/- per injection (up to 30 min run)*	3000/- per injection (up to 30 min run)*	5000/- per injection (up to 30 min run)*					
			UPLC-MS/MS	3000/- per injection (up to 30 min run)*	3500/- per injection (up to 30 min run)*	6000/- per injection (up to 30 min run)*					
			1. An additional 2000 will be charged for every 30 minutes beyond the initial 30 minutes. 2. Only C18/C8 columns are provided for LC-MS analysis. If any specific column is required for analysis, the user must provide it.								
11	Isothermal Calorimeter (SYS80004 PEAQ-ITC/ Malvern)	Liquids	Per hour	800/hour	1000/hour	2500/hour		Dr. Soumit S Mandal	soumit@iisertirupati.ac.in		
12	Powder XRD (Rigaku-Smartlab-9KW)	Powders/ Thin Flims/ Solid Samples	Standard Scan rate -20 min Max	500 per sample	600 per sample	1000 per sample	Working	Dr. V Aravindan	aravindan@iisertirupati.ac.in		
			Slow Scan Rate – 45 Min Max	1000 per sample	1200 per sample	2500 per sample					
13	FTIR (Bruker Alpha -II /Perkin Elmer Spectrum - II)	Solid / Liquids / Semi solids	Standard Parameters	150 per sample	250 per sample	500 per sample		Dr. Pankaj Kumar	pankaj@iisertirupati.ac.in		
14	Single Crystal XRD (Bruker-D8 Venture Diffractometer -Photon III-Duo)	Crystals	Single Crystal XRD				Working	Dr. Sudipta Roy	roy.sudipta@iisertirupati.ac.in		
			Cell Parameters at RT	400 per sample	500 per sample	1000 per sample					
			Cell Parameters at Low Temp	600 per sample	750 per sample	1500 per sample					
			Full Data Collection at Room Temp	500/hour	600/hour	1000/hour					

			Full Data Collection at Low Temp	800/hour	1000/hour	1500/hour				
15	Fluorescence Spectrometer (JASCO-FP-8500)	Liquid Samples	Standard Parameters	250 /sample	300 /sample	1000 /sample	Working	Dr. Jatish Kumar	jatish@iisertirupati.ac.in	
16	Fluorescence Spectrometer (Fluoromax-plus-p/Horiba)	Liquids /Thin Films/Solids/Low Temp Measurements	Standard Parameters	350 /sample	400 /sample	1200 /sample	Working	Dr. Soumit S Mandal	soumit@iisertirupati.ac.in	
17	UV-Vis NIR (Agilent Cary-5000)	Solids/Liquids/Thin Films	Standard Parameters	300 /sample	400 /sample	1200 /sample	Working	Dr. Janardan Kundu	janardan@iisertirupati.ac.in	
18	BET Surface Area Analyser (Autosorb IQ-XR/Quantachrome - Anton Paar)	Solid Samples	N2 Gas - Maximum 40 Points	2000 per sample	2500 per sample	4000 per sample	Working	Dr. V Aravindan	aravindan@iisertirupati.ac.in	
19	Confocal Raman Spectrometer (Lab ram HR Evolution/HORIBA)	Solid/Thin Films/Liquids	Normal Scan / Room Temperature	500 per sample	600 per sample	1200 per sample	Working	Dr. Jatish Kumar	jatish@iisertirupati.ac.in	
			Normal Scan / High Temperature	600 per sample	700 per sample	1500 per sample				
			Normal Scan / Low Temperature	750 per sample	850 per sample	2000 per sample				
			Normal Scan - Raman Imaging/Mapping, maximum 60 min at RT	1000 per sample	1200 per sample	3000 per sample				
			1. Slow Scan - Extra 50% added to above charges 2. For Low Temperature Raman Imaging/Mapping - Extra 50% added to above charges							
20	UV-Vis spectrophotometer (Carry 3500)	Liquid Samples	Standard Parameters	150 per sample	250 per sample	500 per sample	Working	Dr. Pankaj Kumar	pankaj@iisertirupati.ac.in	
21	Tissue Scanner	Tissue Slids	Per slide	250 per slide	300 per slide	800 per slide	Working	Dr. Ashwani Sharma	a.sharma@iisertirupati.ac.in	
22	Gas Mass Spectrometer (Pfeiffer)	Liquids	Per Sample	500 per sample	600 per sample	1500 per sample	Working	Dr. Pankaj Kumar	pankaj@iisertirupati.ac.in	
23	Battery Tester (Arabic/Biologic)	Solids	Per Hour	1000 per hour	1200 per hour	2500 per hour	Working	Dr. Aravindan	aravindan@iisertirupati.ac.in	
24	Circulatory Polarized Luminescence Spectrophotometer (CPL-300)	Liquid/Solid/Thin Films/Glass Slides	15min per sample	600 per sample	750 per sample	1500 per sample	Working	Dr. Jatish Kumar	jatish@iisertirupati.ac.in	
			Upto 1 hour per sample	1500 per sample	1800 per sample	4500 per sample				
			If the sample analysis time exceeds one hour, additional charges will apply: 1000 per sample for Academic and Government Organizations, and 2000 per sample for Industry							
25	Thermo Gravimetric Analysis (TGA) TA -55 - TA Instruments	Solid Samples	RT to 1000 degrees	1000 per sample	1200 per sample	2500 per sample	Working	Dr. Aravindan	aravindan@iisertirupati.ac.in	