

SATHI-BHU

USER CHARGES

High Resolution Accurate Mass Spectrometry

For Proteomics:

HRAMS		USER CHARGES		
S.No.	Analysis Type	BHU Users & Start-ups (₹)	Academic/ Research Institutions others than BHU (₹)	Industry (₹)
1	Deep Protein Analysis Protein Identification (Targeted for Single Protein) (60 min Run + Sample Preparation)	Rs. 7,500	Rs. 15,000	Rs. 30,000
2	Deep Protein Analysis [Total Protein Profiling- HRMS with database search - Protein Identification and Profiling (120 min Run + Sample Preparation)	Rs. 9,000	Rs. 18,000	Rs. 36,000

* For Quantitative analysis Rs. 1000/- per sample additional charges will be applicable.

For Small Molecules/ Metabolites:

S.No.	Analysis Type	BHU Users & Start-ups (₹)	Academic/ Research Institutions others than BHU (₹)	Industry (₹)
1	Single Metabolite Identification HRMS with database search - (Targeted for single-molecule) Note- Up to 12 min Runtime	Rs. 3,100/-	Rs. 6,300/-	Rs. 12,600/-

2	Total Metabolite Profiling HRMS with database search- Metabolite Identification and Profiling Note - Up to 25 min Run time	Rs. 6,300/-	Rs. 12,600/-	Rs. 25,200/-
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- If the run time exceeds the limit the charges will be in multiple accordingly.
- These charges are for the both (positive + negative) modes.
- For single (positive + negative) mode small molecules identification the charges will be reduced accordingly.
- For Quantitative analysis of small molecule Rs. 1000/- per sample additional charges will be applicable.

Note – For External samples, GST will be applicable as per rule.

NMR (600 MHz)

Solvent Provided by User:

A) For BHU& Start ups (₹)			
Individual Measurement		NMR based Experiments	
¹ H (8-16 scans) Sample preference (3-8 mg)	¹³ C (256-512 scans), ¹¹ B, ¹⁹ F, ³¹ P Sample preference (15-25 mg for 256 scans, 8-15mg for 512 scans)	Experiments up to two-hour (per 60 min) 2D (COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hours*
Rs. 60/sample (Rs. 960/hour)	Rs. 120/sample (Rs. 600/hour)	Rs. 600	Rs. 600/60 min up to two hours then Rs. 200/30 min for following hours (Maximum 3 hours*)
B) Other Academic Institutions, R & D Labs, MSMEs (₹)			
Individual Measurement		NMR based Experiments	
¹ H (8-16 scans)	¹³ C (up to 520 scans), ¹¹ B, ¹⁹ F, ³¹ P	Experiments up to two-hour (per 60 min) 2D (COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hours*

Rs. 120 /sample (Rs. 1920/hour)	Rs. 240/sample (Rs. 1200/hour)	Rs. 1200	Rs. 1200/60 min up to two hours then Rs. 500/30 min for following hours (Maximum 3 hours*)
C) For Large Industrial Establishment (₹)			
Individual Measurement		NMR based Experiments	
¹ H (8-16 scans)	¹³ C (upto 520 scans), ¹¹ B, ¹⁹ F, ³¹ P	Experiments upto two hour (per 60 min) 2D (COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hours*
Rs. 240 /sample (Rs. 3840/hour)	Rs. 480/sample (Rs. 2400/hour)	Rs. 2400	Rs. 2400/60 min upto two hours then Rs. 1000/30 min for following hours (Maximum 3 hours*)

Solvent Provided by the Facility:

A) For BHU& Start ups (₹)				
Solvent	Individual Measurement		NMR based Experiments	
	¹ H (8-16 scans)	¹³ C (upto 520 scans), ¹¹ B, ¹⁹ F, ³¹ P	Experiments upto two hour (per 60 min, COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hour*
CDCl ₃	Rs. 120 /sample (Rs. 1920/hour)	Rs. 180 /sample (Rs. 900/hour)	Rs. 700	Rs. 50 + Rs. 600/60 min upto two hours then Rs. 200/30 min for following hours (Maximum 3 hours*)
Other (DMSO-d ₆ , CD ₃ OD, CD ₃ CN etc.)	Rs. 250 /sample (Rs. 4000/hour)	Rs. 300 /sample (Rs. 1500/hour)	Rs. 1000	Rs. 200 + Rs. 600/60 min upto two hours then Rs. 200/30 min for following hours (Maximum 3 hours*)
B) Other Academic Institutions, R & D Labs, MSMEs (₹)				
Solvent	Individual Measurement		NMR based Experiments	
	¹ H (8-16 scans)	¹³ C (upto 520 scans), ¹¹ B, ¹⁹ F, ³¹ P	Experiments upto two hour (per 30 min, COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hour*

CDCl ₃	Rs. 240 /sample (Rs. 3840/hour)	Rs. 360 /sample (Rs. 1800/hour)	Rs. 1400	Rs. 100 + Rs. 1200/60 min upto two hours then Rs. 500/30 min for following hours (Maximum 3 hours*)
Other (DMSO-d ₆ , CD ₃ OD, CD ₃ CN etc.)	Rs.500 /sample (Rs. 8000/hour)	Rs. 600 /sample (Rs. 3000/hour)	Rs. 2000	Rs. 400 + Rs. 1200/60 min upto two hours then Rs. 500/30 min for following hours (Maximum 3 hours*)
C) For Large Industrial Establishment (₹)				
Solvent	Individual Measurement		NMR based Experiments	
	¹ H (8-16 scans)	¹³ C (upto 520 scans), ¹¹ B, ¹⁹ F, ³¹ P	Experiments upto two hour (per 60 min, COSY/ HSQC/ HMBC/ NOSEY)	Experiments longer than two hour*
CDCl ₃	Rs. 480 /sample (Rs. 7680/hour)	Rs. 720 /sample (Rs. 3600/hour)	Rs. 2800	Rs. 200 + Rs. 2800/60 min upto two hours then Rs. 1000/30 min for following hours (Maximum 3 hours*)
Other (DMSO-d ₆ , CD ₃ OD, CD ₃ CN etc.)	Rs. 1000/sample (Rs. 16000/hour)	Rs. 1200 /sample (Rs. 6000/hour)	Rs. 4000	Rs. 800 + Rs. 4000/60 min upto two hours then Rs. 1000/30 min for following hours (Maximum 3 hours*)

600 MHz Solid-State NMR based Experiments

NMR based Experiments	
A) For BHU& Start ups (₹)	
Experiments up to one-hour (per 60 min) 1D, ¹ H- ¹³ C, ¹⁵ N Cross polarization (CP), 2D HETCOR	Experiments longer than three hours*
Rs. 800	Rs. 600/60 min for following hours (Maximum 6 hours*)
B) Other Academic Institutions, R & D Labs, MSMEs (₹)	
Rs. 1600	Rs. 1200/60 min for following hours (Maximum 6 hours*)
C) For Large Industrial Establishment (₹)	
Rs. 3200	Rs. 2400/60 min for following hours (Maximum 6 hours*)

* Request of time slot for more than 3 hours will be confirmed by the concerned authority

* Sunday will be utilized for maintenance and other additional work

Laser Ablation (Femtosecond) Combustion Gas Chromatography - High Resolution – Isotope Ratio Mass Spectrometry (LA-CGC-HR- IRMS)		User Charges per Sample		
		BHU & Start-ups (₹)	Other Academic Institutions, R&D Labs, MSMEs (₹)	Large Industrial Establishment (₹)
	Analysis Type			
	Gas bench (for carbonate and water)			
1.	$\delta^{13}\text{C} + \delta^{18}\text{O}$ (in carbonate)	1000	2000	4000
2.	$\delta^{13}\text{C}$ (Dissolved inorganic carbon – DIC) (in water)	800	1600	3200
3.	$\delta^{18}\text{O}$ (in water)	500	1000	2000
4.	$\delta^2\text{D}$ (in water)	500	1000	2000
	Element Analyzer – FLASH – IRMS (for solid organic and inorganic samples only)			
1.	$\delta^{13}\text{C}$	1000	2000	4000
2.	$\delta^{15}\text{N}$	1000	2000	4000
Laser Scanning Super Resolution Microscope System				
	User Charges per 60 min	1000	2000	4000
Circular Dichroism Spectrophotometer				
	User Charges per 60 min	400	800	1600
Photoacoustic Imaging Platform				
	User Charges per 60 min	1000	2000	4000
Electrochemical Workstation, Solar Simulator Workstation and Fuel Cell Workstation				
	User Charges per hour	300	600	1200