



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
 भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
 Indian Institute of Technology Hyderabad

**RESEARCH/ANALYSIS FACILITIES AVAILABLE AT DEPARTMENT OF CHEMISTRY @ IIT HYDERABAD**

S. No	Name of the Equipment	Faculty-In-charge	Faculty-In-charge mail Id	Staff-In-Charge	Staff-In-Charge mail Id	Contact No. of Staff-In-Charge	Measurements / Experiments	User Charges			Remarks
								Academic/Educational Users (IITs, IISERs, Universities & amp; Colleges)	Government Users (Govt. Labs/R&D Centre's, CSIR labs, etc.)	Others (Industries, Companies, Individuals, etc.)	
1	<b>BRUKER D8 VENTURE SCXRD</b>	Prof. G Prabusankar	Prabu@chy.iith.ac.in	Mr.P.S.Ramanababu	Ramanababu.ps@chy.iith.ac.in	9603032438	Single Crystal	(1) Cell Parameter: <b>(Rs.550 + GST 18%)</b> per sample  (2) Cell parameter and Data Base check: <b>(Rs.750 + GST 18%)</b> per sample  (3) Data collection at RT: <b>(Rs.2800 + GST 18%)</b> per sample  (4) Data collection at LT: <b>(Rs.5000 + GST 18%)</b> per sample	(1) Cell Parameter: <b>(Rs.1600 + GST 18%)</b> per sample  (2) Cell parameter and Data Base check: <b>(Rs.2250 + GST 18%)</b> per sample  (3) Data collection at RT: <b>(Rs.8500 + GST 18%)</b> per sample  (4) Data collection at LT: <b>(Rs.10500 + GST 18%)</b> per sample	(1) Cell Parameter: <b>(Rs.2750 + GST 18%)</b> per sample  (2) Cell parameter and Data Base check: <b>(Rs.3750 + GST 18%)</b> per sample  (3) Data collection at RT: <b>(Rs.15000 + GST 18%)</b> per sample  (4) Data collection at LT: <b>(Rs.18500 + GST 18%)</b> per sample	
2	<b>DSC</b>	Prof. G Prabusankar	prabu@chy.iith.ac.in	Mr.P.Vijayakumar	vijay.poondla@chy.iith.ac.in	9885979286	Powders, films and Liquid samples 1. High temp RT 500 2. Specific heat capacity	(1) RT 500 C Heating <b>Rs.650 (Inclusive of GST)</b>  (2) Heating & cooling <b>Rs.900 (Inclusive of GST)</b>  (3) Specific heat capacity <b>Rs.1800 (Inclusive of GST)</b>	(1) RT 500 C Heating <b>Rs.1950 (Inclusive of GST)</b>  2. Heating & cooling <b>Rs.2700 (Inclusive of GST)</b>  3. Specific heat capacity <b>Rs.5400 (Inclusive of GST)</b>	1. RT 500 C Heating <b>Rs.3250 (Inclusive of GST)</b>  2. Heating & cooling <b>Rs.4500 (Inclusive of GST)</b>  3. Specific heat capacity <b>Rs.9000 (Inclusive of GST)</b>	Per 1 Sample

3	ESR	Prof. G Prabusankar	prabu@chy.iith.ac.in	Mr.P.Vijayakumar	vijay.poondla@chy.iith.ac.in	9885979286	Powders, Crystal/films & liquids  1.Room Temp 2.Liq.N2 3.Var.Temp	I) ESR X band (Inclusive of GST) 1.RoomTemp ---- Rs.500 2.Liq.N2 ----- Rs.750 3.Var.Temp -----Rs.750  II) X -BAND ENDOR (Inclusive of GST) 1.RT-----Rs.2000 2.Liq.N2-----Rs.1500 3.Var.Temp -----Rs.2000	I) ESR X band (Inclusive of GST) 1.RoomTemp ----- Rs.1500 2.Liq.N2 ----- Rs.2250 3.Var.Temp -----Rs.2250  II) X -BAND ENDOR (Inclusive of GST) 1 RT ----- Rs.3000 2.Liq.N2 ----- Rs.4500 3.Var.Temp -----Rs.6000	I) ESR X band (Inclusive of GST) 1.RoomTemp ----Rs.2500 2.Liq.N2 ----- Rs.3750 3.Var.Temp ----- Rs.3750  II) X -BAND ENDOR (Inclusive of GST) 1.RT ----- Rs.5000 2.Liq.N2 ----- Rs.7000 3.Var.Temp -----Rs.10000	Per hour/1 Sample
4	HORIBA FLUOROMAX-4 SPECTROFLUORO METER	Prof. M Deepa	mdeepa@chy.iith.ac.in	Mr.Ashok Yeligeti	Ashok.yeligeti@chy.iith.ac.in	9603390798	Films on TCO/glass and solutions	Rs.400 (Inclusive of GST) per measurement	Rs.1200 (Inclusive of GST) per measurement	Rs.2000(Inclusive of GST) per measurement	Cost per sample: Emission spectrum between 300-1100 nm wavelength
5	HRMS (Q-ToF LCMS) (Note: Service currently unavailable)	Prof. G Satyanarayana	gvsatya@chy.iith.ac.in	Mr.Md Samiuddin	mohammed.sami@chy.iith.ac.in	9177458004	Liquid and Solid samples	Rs.1000 (Inclusive of GST) per measurement	Rs.1500 (Inclusive of GST) per measurement	Rs.2500 (Inclusive of GST) per measurement	
6	INDUCTIVELY COUPLE PLASMA OPTICAL EMISSION SPECTROSCOPY (ICP-OES)	Dr. Surendra K Martha	martha@chy.iith.ac.in	Mr.K V Satya Girish	girish.kota@chy.iith.ac.in	7901264989	Liquid samples diluted in ppb	Rs.1800 + GST 18%	Rs.1800 + GST 18%	Rs.3750 + GST 18%	Cost per slot (Max. 5 elements per 5 samples)
7	JASCO FTIR	Dr. Somnath Maji	smaji@chy.iith.ac.in	Mr.Ashok Yeligeti	Ashok.yeligeti@chy.iith.ac.in	9603390798	Powders and Liquid samples	Rs.200 (Inclusive of GST) per measurement	Rs.400 (Inclusive of GST) per measurement	Rs.800 (Inclusive of GST) per measurement	
8	JASCO UV	Dr. Ashutosh Kumar Mishra	akm@chy.iith.ac.in	Mr.Ashok Yeligeti	Ashok.yeligeti@chy.iith.ac.in	9603390798	Powders and Liquid samples	Rs.200 (Inclusive of GST) per measurement	Rs.400 (Inclusive of GST) per measurement	Rs.800 (Inclusive of GST) per measurement	
9	JASCO-SPECTROFLUORO METER	Dr. Surajit Maity	surajitmaity@chy.iith.ac.in	Mr.Ashok Yeligeti	Ashok.yeligeti@chy.iith.ac.in	9603390798	Films on TCO/glass and solutions	Rs.400 (Inclusive of GST) per measurement	Rs.1200 (Inclusive of GST) per measurement	Rs.2000(Inclusive of GST) per measurement	
10	Malvern PANalytical XPERT PRO Powder X-Ray Diffractometer	Dr. Surendra K Martha	martha@chy.iith.ac.in	Mr.K V Satya Girish	girish.kota@chy.iith.ac.in	7901264989	Powder, metal, film samples	Rs.1500 + GST 18%	Rs.1500 + GST 18%	Rs.2250 + GST 18%	Cost per slot (3 hrs Max.)
11	MULTIMODE VEECO 8 ATOMIC FORCE MICROSCOPE	Prof. M Deepa	mdeepa@chy.iith.ac.in	Mr.K V Satya Girish	girish.kota@chy.iith.ac.in	7901264989	Flat smooth thin films on TCO, SS, Si, Au, quartz	Rs.2250 + GST 18%	Rs.3750 + GST 18%	Rs.7500 + GST 18%	Cost per sample
12	400MHz NMR (NOTE: Presently we are accepting samples for 1H, 13C & DEPT measurements)	Prof. G Satyanarayana	gvsatya@chy.iith.ac.in	Mr.Md Samiuddin	mohammed.sami@chy.iith.ac.in	9177458004	1 H	Rs.350 per Measurement + Sample preparation: (Rs.120 for CDCl3) (Rs.300 for DMSO-D6 & D2O) + 18% GST	Rs.700 per Measurement + Sample preparation: (Rs.120 for CDCl3) (Rs.300 for DMSO-D6 & D2O) + 18% GST	Rs.1400 per Measurement + Sample preparation: (Rs.240 for CDCl3) (Rs.600 for DMSO-D6 & D2O) + 18% GST	

						19 F	Rs.350 per Measurement	Rs.700 per Measurement	Rs.1400 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.240 for CDCl <sub>3</sub> )			
							(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.600 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)			
							+ 18% GST	+ 18% GST	+ 18% GST			
						31 P	Rs.350 per Measurement	Rs.700 per Measurement	Rs.1400 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.240 for CDCl <sub>3</sub> )			
							(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.600 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)			
							+ 18% GST	+ 18% GST	+ 18% GST			
						11 B	Rs.550 per Measurement	Rs.1100 per Measurement	Rs.2200 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.240 for CDCl <sub>3</sub> )			
							(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.600 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)			
							+ 18% GST	+ 18% GST	+ 18% GST			
						D <sub>2</sub> O Exchange	Rs.350 per Measurement	Rs.700 per Measurement	Rs.1400 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.240 for CDCl <sub>3</sub> )			
							(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.600 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)			
							+ 18% GST	+ 18% GST	+ 18% GST			
						13 C	Rs.500 per Measurement	Rs.1000 per Measurement	Rs.2000 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )			
							(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)	(Rs.300 for DMSO-D <sub>6</sub> & D <sub>2</sub> O)			
							+ 18% GST	+ 18% GST	+ 18% GST			
							(Note: Sample must be of 0.15 mmol quantity)	(Note: Sample must be of 0.15 mmol quantity)	(Note: Sample must be of 0.15 mmol quantity)			
						DEPT	Rs.500 per Measurement	Rs.1000 per Measurement	Rs.2000 per Measurement			
							+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )	+ Sample preparation: (Rs.120 for CDCl <sub>3</sub> )			

								(Rs.300 for DMSO-D6 & D2O)	(Rs.300 for DMSO-D6 & D2O)	(Rs.300 for DMSO-D6 & D2O)	
								+ 18% GST	+ 18% GST	+ 18% GST	
								(Note: Sample must be of 0.15 mmol quantity)	(Note: Sample must be of 0.15 mmol quantity)	(Note: Sample must be of 0.15 mmol quantity)	
13	POLARIMETER	Dr. D.S. Sharada	sharada@chy.iith.ac.in	Mr.P.Vijayakumar	vijay.poondla@chy.iith.ac.in	9885979286	Liquid samples	Rs.1000 (Inclusive of GST)	Rs.1500 (Inclusive of GST)	Rs.2000 (Inclusive of GST)	
14	RAMAN MICROSCOPE FACILITY	Dr. Surendra K Martha	martha@chy.iith.ac.in	Mrs.P R C Melody	melody.satya@chy.iith.ac.in	9440266443	Powder in the form of pellet, films, metals	Rs.1125 + GST 18%	Rs.1125 + GST 18%	Rs.1500 + GST 18%	Cost per slot – 2 hrs (Max. 5-6 samples)
15	TGA	Prof. G Prabusankar	prabu@chy.iith.ac.in	Mr.P.Vijayakumar	vijay.poondla@chy.iith.ac.in	9885979286	Powders and Thin films	1.RT temp 1000 C Rs.300 (Inclusive of GST) 2.(Cp) Specific Heat Rs.300 (Inclusive of GST)	1.RT temp 1000 C Rs.800 (Inclusive of GST) 2.(Cp) Specific Heat Rs.800 (Inclusive of GST)	1.RT temp 1000 C Rs.2500 (Inclusive of GST) 2.(Cp) Specific Heat Rs.2500 (Inclusive of GST)	Per 1 Sample
16	THERMOELECTRIC MEASUREMENTS ZEM3	Dr. Jai Prakash	jaiprakash@chy.iith.ac.in	Mr.K V Satya Girish	girish.kota@chy.iith.ac.in	7901264989	Pellet sintered dimensions	Rs.1500 + GST 18%	Rs.1800 + GST 18%	Rs.2100 + GST 18%	Cost per slot (1 sample)
17	X-RAY PHOTOELECTRON SPECTROSCOPY (XPS)	Prof.Ch Subrahmanyam	csubbu@chy.iith.ac.in	Mr.P.Vijayakumar	vijay.poondla@chy.iith.ac.in	9885979286	Powders, films	Rs.3500 (Inclusive of GST) Per sample up to 4 elements	Rs.3500 (Inclusive of GST) Per sample up to 4 elements	Rs.5000 (Inclusive of GST) Per sample up to 4 elements	
18	WATERS GEL PERMEATION CHROMATOGRAPHY (HPLC)	Prof. Tarun K Panda	tpanda@chy.iith.ac.in	Mr.P.S.Ramanababu	Ramanababu.ps@chy.iith.ac.in	9603032438	1.Only Polymer Samples allowed 2. Sample should be soluble in THF solvent 3. Separation of MW Range: 1KDa to 20KDa	Rs.400 + GST 18% (Note: Bring mobile phase + Column)	Rs.500 + GST 18% (Note: Bring mobile phase + Column)	Rs.1000 + GST 18% (Note: Bring mobile phase + Column)	
19	JASCO-J815 CD SPECTROMETER	Dr.K Venkata Rao	kvrao@chy.iith.ac.in	Mr.P.S.Ramanababu	Ramanababu.ps@chy.iith.ac.in	9603032438	Investigate structural aspects of optically active chiral media	Rs.500 + GST 18% Per Hour measurement	Rs.500 + GST 18% Per Hour measurement	Rs.700 + GST 18% Per Hour measurement	Temperature dependent measurements are also possible