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## SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY

INDIAN INSTITUTE OF TECHNOLOGY MADRAS


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#### HOW TO SUBMIT THE SAMPLES

The samples should be submitted in the prescribed format indicating the information called for as well as your special requirement, if any. If you are sending them by mail, please enclose the payment along with the samples and address the same to:

**The Head , Sophisticated Analytical Instrument Facility  
Indian Institute of Technology Madras,  
Chennai - 600 036.**

Only on receipt of the payment along with the samples, they will be registered for analysis and taken up for measurement as per the seniority/queue of the users of the instrument concerned. As soon as the analysis is over, the spectra along with the receipt / bill will be sent to the users. While submitting samples for more than one analysis separate samples are to be sent for each.

#### **An Important notice**

As per the guidelines of the Department of Science and Technology (DST), in all publications of research work, where in the analytical services of the SAIF have been made use of, the DST and the SAIF, IIT Madras shall be duly acknowledged. Kindly send us the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to us.

A [list of charges](#) for spectral measurements, as stipulated by the Department of Science & Technology, New Delhi, is annexed. A "Three Tier" Charge System is being followed. Please note that :

The charges mentioned are for analysis of samples received from users within India only.

For overseas users, please contact SAIF by Email directly.

Charges are subject to change periodically

#### **Mode of Payment**

Please note the current policy on payment of analysis charges: Our current policy requires analysis that payment be received before the samples can be registered and analysis taken up. Please make sure that the payment is received along with the samples. Payments are to be made by either demand draft (DD) or Card swiping facility also available.

**The DD must be drawn in favour of:  
The Registrar, IIT Madras  
payable at Chennai and must be sent along with samples and Registration form to:**

**The Head , Sophisticated Analytical Instrument Facility**

Indian Institute of Technology Madras,  
Chennai - 600 036.

Please note that in the event the DD amount/payment received is more than the actual analyses charges incurred, it will NOT be possible to refund the excess amount paid. However, the excess amount may be adjusted against future analyses by the same user or another user from the same organization following a written request by Email or hard copy. **The excess amount adjustment should be utilized before 31st March, the financial year ends.**

**List of charges with effect from 15<sup>th</sup> - JULY - 2017.** The charges include GST

**Please note that the testing charges now include a GST component of 18% which has been revised from 15% in accordance with Government of India instructions.**

**NEW NEW Charge Calculator**

SL.NO	Facility	Industries Large Scale Medium & SSI	R&D and National Labs	Academic and Educational Institutions	SC & ST Candidates avail 10% discount	
<b>SPECTROMETRY</b>						
1.	<b>FT-NMR spectrometer (Solution State)</b> Extra charges for deuterated solvents	<sup>1</sup> H, <sup>19</sup> F, <sup>31</sup> P, <sup>27</sup> Al, <sup>11</sup> B & DEPT	₹. 3500/-per Measurement	₹. 2100/-per Measurement	₹. 700/- per Measurement	₹. 630/- per Measurement
		<sup>13</sup> C	₹. 5000/-per Measurement	₹. 3000/-per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
		<sup>77</sup> Se, <sup>125</sup> Te, <sup>95</sup> Mo, <sup>29</sup> Si	₹. 5000/- per Measurement	₹. 3000/-per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
		VT - HT	₹. 3500/-per Measurement	₹. 2100/-per Measurement	₹. 700/- per Measurement	₹. 630/- per Measurement
		VT - LT	₹. 5000/-per Measurement	₹. 3000/-per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
		2D: COSY, HSQC	₹. 5000/- per Measurement	₹. 3000/-per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
		2D: DQFCOSY, HMBC, TOCSY	₹. 6000/-per Measurement	₹. 3600/-per Measurement	₹. 1200/- per Measurement	₹. 1080/- per Measurement
		2D:NOESY / ROESY	₹. 11500/- per Measurement	₹. 6900/-per Measurement	₹. 2300/-per Measurement	₹. 2070/-per Measurement
		Solvent Charges:- CDCl <sub>3</sub>	₹. 500/-per Measurement	₹. 300/-per Measurement	₹. 100/-per Measurement	₹. 90/-per Measurement
		Solvent Charges:- METHANOI - D4	₹. 3500/-per Measurement	₹. 2100/-per Measurement	₹. 700/-per Measurement	₹. 630/-per Measurement
		Solvent Charges:- DMSO, BENZENE, D2O, ACETONE etc.	₹. 1000/-per Measurement	₹. 600/-per Measurement	₹. 200/-per Measurement	₹. 180/-per Measurement
2.	<b>FT-NMR spectrometer (Solid State)</b>	₹. 10000/-per Measurement per hour ₹. 5000/- for additional hour	₹. 6000/-per Measurement per hour ₹. 3000/- for additional hour	₹. 2000/-per Measurement per hour ₹. 1000/- for additional hour	₹. 1800/-per Measurement per hour ₹. 900/- for additional hour	
<b>ESR Spectrometer</b>						
	ESR Microwave Frequency	Measurement Temperature	Nature of Sample	Feasible/ Not	Measurement Charges	

				Feasible				
3.	<b>ESR Microwave Frequency X Band</b>	Room Temperature	Powder	Y	₹. 2500/-per Measurement	₹. 1500/-per Measurement	₹. 500/- per Measurement	₹. 450/- per Measurement
			Solution/Liquid	Y				
			Crystal/Pellet/Thin Film	Y				
		Liquid Nitrogen Temperature(77.3K)	Powder	Y	₹. 3750/-per Measurement	₹. 2250/-per Measurement	₹. 750/- per Measurement	₹. 680/- per Measurement
			Solution/Liquid	Y				
			Crystal/Pellet/Thin Film	Y				
		Variable Temperature (100K-298K)	Powder	Y	₹. 3750/-per Measurement	₹. 2250/-per Measurement	₹. 750/- per Measurement	₹. 680/- per Measurement
			Solution/Liquid	N				
			Crystal/Pellet/Thin Film	Y				
	<b>ESR Microwave Frequency X Band ENDOR</b>	Room Temperature	Powder	Y	Rate not fixed			
		Liquid Nitrogen Temperature	Solution/Liquid					
		Variable Temperature	Crystal/Pellet/Thin Film	Y	₹. 10000/-per Measurement	₹. 6000/-per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement
<b>ESR Microwave Frequency Q Band</b>	Room Temperature	Powder	Y	₹. 12500/-per Measurement	₹. 7500/-per Measurement	₹. 2500/- per Measurement	₹. 2250/- per Measurement	
		Solution/Liquid	Y					
		Crystal/Pellet/Thin Film	Y					
	Liquid Nitrogen Temperature(77.3K)	Powder	N	Nil	Nil	Nil	Nil	
		Solution/Liquid	N					
		Crystal/Pellet/Thin Film	N					
	Variable Temperature (100K-298K)	Powder	Y	₹. 15000/-per Measurement	₹. 9000/-per Measurement	₹. 3000/- per Measurement	₹. 2700/- per Measurement	
		Solution/Liquid						
		Crystal/Pellet/Thin Film	Y					
4.	<b>ICP-OES</b> for analysis per sample including standardization for first element			₹. 2390/-per Measurement for every additional elements ₹. 470/-; sample Digestion charges extra	₹. 1090/- per Measurement For every additional elements ₹. 220/-; Sample Digestion charges extra	₹. 370/- per Measurement for every additional element ₹.80/-; sample Digestion charges extra	₹. 340/- per Measurement for every additional element ₹.70/-; sample Digestion charges extra	
5.	<b>LIFE TIME SYSTEM</b> <u>(Please click the link before submitting the samples for specialized measurements)</u>	Single experiment		₹. 2250/- per Measurement	₹. 1350/- per Measurement	₹. 450/- per Measurement	₹. 410/- per Measurement	
		*Quenching studies		₹. 10000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement	
		*FRET		₹. 10000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement	
6.	<b>UV-VIS-NIR spectrometer</b>	UV-VIS only		₹. 2000/- per Measurement	₹. 1200/- per Measurement	₹. 400/- per Measurement	₹. 360/- per Measurement	
		UV-VIS-NIR		₹. 2500/- per Measurement	₹. 1500/- per Measurement	₹. 500/- per Measurement	₹. 450/- per Measurement	

7.	<b>Fluorescence spectrometer</b> (Please click the link before submitting the samples for specialized measurements)	<b>Excitation/emission Spectrum</b>	₹. 2000/- per Measurement	₹. 1200/- per Measurement	₹. 400/- per Measurement	₹. 360/- per Measurement
		<b>Synchronous Scanning</b>	₹. 4000/- per Measurement	₹. 2400/- per Measurement	₹. 800/- per Measurement	₹. 720/- per Measurement
		<b>Excitation-Emission Matrix</b>	₹. 5000/- per Measurement	₹. 3000/- per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
		<b>*Quantum yield measurement(for liquid sample only)</b>	₹. 10000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement
		<b>*Quenching studies</b>	₹. 10000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement
		<b>*Solvatochromism studies</b>	₹. 10000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement
		<b>*FRET study</b>	₹. 7500/- per Measurement	₹. 4500/- per Measurement	₹. 1500/- per Measurement	₹. 1350/- per Measurement
8.	<b>FT-RAMAN spectrometer</b>	₹. 1940/- per Measurement [Included Preparation charges]	₹. 870/- per Measurement [Included Preparation charges]	₹. 360/- per Measurement [Included Preparation charges]	₹. 330/- per Measurement [Included Preparation charges]	
9.	<b>ATR-IR spectrometer</b> per spectrum per sample	₹. 1940/- per Measurement [Included Preparation charges]	₹. 870/- per Measurement [Included Preparation charges]	₹. 360/- per Measurement [Included Preparation charges]	₹. 330/- per Measurement [Included Preparation charges]	
<b>CRYSTALLOGRAPHY</b>						
10.	<b>Single crystal X-Ray Diffractometer (XRD)</b> For structure determination charges are extra. (Pl. contact the operator)	<b>Cell Parameters</b>	₹. 2750/- per Measurement	₹. 1610/- per Measurement	₹. 550/- per Measurement	₹. 500/- per Measurement
		<b>Cell Parameter and Crystal Structure Data Base Check</b>	₹. 3750/- per Measurement	₹. 2250/- per Measurement	₹. 750/- per Measurement	₹. 680/- per Measurement
		<b>Data Collection</b>	₹. 14150/- per Measurement	₹. 8440/- per Measurement	₹. 2830/- per Measurement	₹. 2550/- per Measurement
		<b>Data Structure*</b>	₹. 23000/- per Measurement	₹. 13820/- per Measurement	₹. 4580/- per Measurement	₹. 4130/- per Measurement
		<b>Data at low temperature</b>	₹. 18300/- per Measurement	₹. 10470/- per Measurement	₹. 3660/- per Measurement	₹. 3230/- per Measurement
		<b>Data &amp; structure at low temperature</b>	₹. 27000/- per Measurement	₹. 15820/- per Measurement	₹. 5420/- per Measurement	₹. 4880/- per Measurement
		<b>Structure solution only(SC-XRD DATA SHOULD BE PROVIDED)</b>	₹. 8750/- per Measurement	₹. 5250/- per Measurement	₹. 1750/- per Measurement	₹. 1580/- per Measurement
<b>IMAGING</b>						
11.	<b>FEI Quanta FEG 200-High Resolution Scanning Electron Microscope (SEM)</b>	<b>SEM Image</b>	₹. 5940/- per Measurement	₹. 2670/- per Measurement	₹. 900/- per Measurement	₹. 810/- per Measurement
		<b>SEM Image + EDS (EDAX)</b>	₹. 8860/- per Measurement	₹. 3960/- per Measurement	₹. 1320/- per Measurement	₹. 1190/- per Measurement
		<b>SEM Image + EDAX + Mapping</b>	₹. 12000/- per Measurement	₹. 6000/- per Measurement	₹. 2000/- per Measurement	₹. 1800/- per Measurement
		<b>SEM Image + EDAX + WDS(Not Working)</b>	₹. 10680/- per Measurement	₹. 4820/- per Measurement	₹. 1600/- per Measurement	₹. 1440/- per Measurement
<b>MAGNETOMETRY</b>						
12.	<b>Vibrating Sample Magnetometer (VSM)</b> (Revised Charges)	<b>RT (up to ± 1.5T)</b>	₹. 6000/- per Measurement	₹. 3600/- per Measurement	₹. 1200/- per Measurement	₹. 1080/- per Measurement
		<b>RT (up to ± 2.5T)</b>	₹. 9000/- per Measurement	₹. 5400/- per Measurement	₹. 1800/- per Measurement	₹. 1620/- per Measurement
		<b>Low Temp</b>	₹. 15000/- per Measurement + ₹. 9000/- for every extra M-H measurement	₹. 9000/- per Measurement + ₹. 5400/- for every extra M-H	M-T at any fixed magnetic field (or) M-H at any one fixed Low temp @ ₹.	M-T at any fixed magnetic field (or) M-H at any one fixed Low temp @ ₹.

			(up to $\pm 1.5T$ ) and ₹.12000/- for every extra M-H measurements (up to $\pm 2.5T$ )	measurement (up to $\pm 1.5T$ ) and ₹.7200/- for every extra M-H measurements (up to $\pm 2.5T$ )	3000/-per Measurement + ₹. 1800/- for every extra M-H measurement (up to $\pm 1.5T$ ) and ₹.2400/- for every extra M-H measurements (up to $\pm 2.5T$ )	2700/-per Measurement + ₹. 1620/- for every extra M-H measurement (up to $\pm 1.5T$ ) and ₹.2160/- for every extra M-H measurements (up to $\pm 2.5T$ )
		<b>High Temp #</b>	₹. 21000/- per Measurement + ₹. 12000/- for every M-H measurement.	₹.12600/- per Measurement + ₹. 7200/- for every M-H measurement.	M-T at any one fixed magnetic field (or) M-H at any one fixed High temp @ ₹. 4200/- per Measurement + ₹. 2400/- for every M-H measurement.	M-T at any one fixed magnetic field (or) M-H at any one fixed High temp @ ₹. 3780/- per Measurement + ₹. 2160/- for every M-H measurement.
<b>THERMAL ANALYSIS</b>						
13.	<b>DSC</b> (The charges specified to a standard heating rate 10°k/min) per measurement	<b>High Temp</b> RT to 400°C	Heating only ₹. 3250/- Heating and Cooling ₹. 4500/-	Heating only Rs. 1950/- Heating and Cooling ₹. 2700/-	Heating only ₹. 650/- Heating and Cooling ₹. 900/-	Heating only ₹. 590/- Heating and Cooling ₹. 810/-
		<b>Low Temp</b> -100°C to 25°C	Heating only ₹. 4000/- Heating and Cooling ₹. 5000/-	Heating only ₹. 2400/- Heating and Cooling ₹. 3000/-	Heating only ₹. 800/- Heating and Cooling ₹. 1000/-	Heating only ₹. 720/- Heating and Cooling ₹. 900/-
		<b>C<sub>p</sub></b> (Specific heat capacity Measurement) 35°C to 400°C	₹. 9000/- per Measurement	₹. 5400/- per Measurement	₹. 1800/- per Measurement	₹. 1620/- per Measurement
14.	<b>TG – DSC</b> (These charges correspond to a standard heating rate 10°k/min)	<b>Temp</b> RT to 1400°C	₹. 6500/- per Measurement	₹. 3900/- per Measurement	₹.1300/- per Measurement	₹.1170/- per Measurement
<b>ELEMENTAL ANALYSIS</b>						
15.	<b>CHNSO ANALYSER</b>	<b>CS744</b>	₹. 5000/- per Sample	₹. 3000/- per Sample	₹. 1000/- per Sample	₹. 900/- per Sample
		<b>ONH836</b>	₹. 5000/- per Sample	₹. 3000/- per Sample	₹. 1000/- per Sample	₹. 900/- per Sample
		<b>Truspec Micro CHNS Module</b>	₹. 7500/- per Sample	₹. 4500/- per Sample	₹. 1500/- per Sample	₹. 1350/- per Sample
		<b>628 Oxygen Module</b>	₹. 7500/- per Sample	₹. 4500/- per Sample	₹. 1500/- per Sample	₹. 1350/- per Sample
<b>CHROMATOGRAPHY</b>						
16.	<b>GC-MS (Single Quad)</b>	<b>GC-MS</b>	₹. 4000/- per Measurement	₹. 2400/- per Measurement	₹. 800/- per Measurement	₹. 720/- per Measurement
		<b>GC-MS with NIST Library search</b>	₹. 5000/- per Measurement	₹. 3000/- per Measurement	₹. 1000/- per Measurement	₹. 900/- per Measurement
17.	<b>LC-QTOF-HRMS</b>	<b>MS (ESI mode)</b>	₹. 4000/- per Sample	₹. 2400/- per Sample	₹. 800/- per Sample	₹. 720/- per Sample
		<b>MS (ESCI mode)</b>	₹. 6000/- per Sample	₹. 3600/- per Sample	₹. 1200/- per Sample	₹. 1080/- per Sample
		<b>MS (ASAP mode)</b>	₹. 7500/- per Sample	₹. 4500/- per Sample	₹. 1500/- per Sample	₹. 1350/- per Sample
		<b>HR-MS (ESI)</b>	₹. 6000/- per Sample	₹. 3600/- per Sample	₹. 1200/- per Sample	₹. 1080/- per Sample
		<b>HR-MS (ESCI)</b>	₹. 8000/- per Sample	₹. 4800/- per Sample	₹. 1600/- per Sample	₹. 1440/- per Sample
		<b>MS/MS</b>	₹. 7500/- per each Mass	₹. 4500/- per each Mass	₹. 1500/- per each Mass	₹. 1350/- per each Mass
		<b>UPLC-Fast DDA</b>	₹. 6000/- per	₹. 3600/- per	₹. 1200/- per	₹. 1080/- per

## Sophisticated Analytical Instrument Facility

	Sample	Sample	Sample	Sample
UPLC-MS	₹. 8000/- per Sample	₹. 4800/- per Sample	₹. 1600/- per Sample	₹. 1440/- per Sample
MSE	₹. 8000/- per Sample	₹. 4800/- per Sample	₹. 1600/- per Sample	₹. 1440/- per Sample
TOF-MRM	₹. 8000/- per Sample	₹. 4800/- per Sample	₹. 1600/- per Sample	₹. 1440/- per Sample

# Maximum 60 points includes 5K interval @ Tc -50 to Tc +50 for High temperature M-T measurement.

\* Cost includes the charges for capillary tube.

#### Data & Structure

\* **"These are the minimum charges. Additional charges may be levied depending on the nature and complexity of the problem. Please contact SAIF Office Dr. P. K. Sudhadevi in this connection. "**

\* Quantum Yield, quenching and solvatochromism and FRET studies can only be done in solution state. The user should check the solubility of sample in different solvents and same should be informed to the operator through the reg. form. For quenching studies the user should supply the quencher solutions with known concentration.

For FRET studies your sample should contain an electron rich (donor) species and electron deficient (acceptor) unit in such a way that emission from the donor and absorption from the acceptor overlap considerably.

For specialized measurements like FRET and quenching studies, please contact 044-2257-5926/5939 or mail to sdevi@iitm.ac.in or varam@iitm.ac.in before submitting the samples. The charge mentioned for FRET studies is for checking absorption and emission of donor and acceptor only. Extra charges may be levied depending on the analysis.

\* User should first submit for steady state Fluorescence quenching studies before submitting for lifetime measurements or they have to provide information about steady state Fluorescence quenching analysis. For specialized measurements like FRET and quenching studies, please contact 044-2257-5926/5939 or mail to sdevi@iitm.ac.in or varam@iitm.ac.in before submitting the samples

#### Microwave digestion charges for ICP-OES:

Minimum charges per sample : ₹. 450/-

Similar samples (up to 5 samples) : ₹. 562/-

(6 - 10 samples) : ₹. 810/-

(10 - 16 samples) : ₹. 2250/-

If the samples are of different types, each sample will be charged separately

#### Additional Charges may be levied for:

**Samples requiring special processing prior to measurement (subject to availability)**

**Deuterated solvents and other costly chemicals**

**Whenever specialized measurements are performed – which are not specified above [eg. VT NMR, DEPT(NMR), VT XRD]**

For heating rates slower than 10 K/ min, charges will be according to the number of hours taken for measurement. (for DSC)

**The Head**

**SAIF IIT Madras**

**Chennai 600 036.**

**Phone No.2257 4935, Fax: 2257 0509/2257 2545**

**E-mail: saif at iitm.ac.in**

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