

# TEM



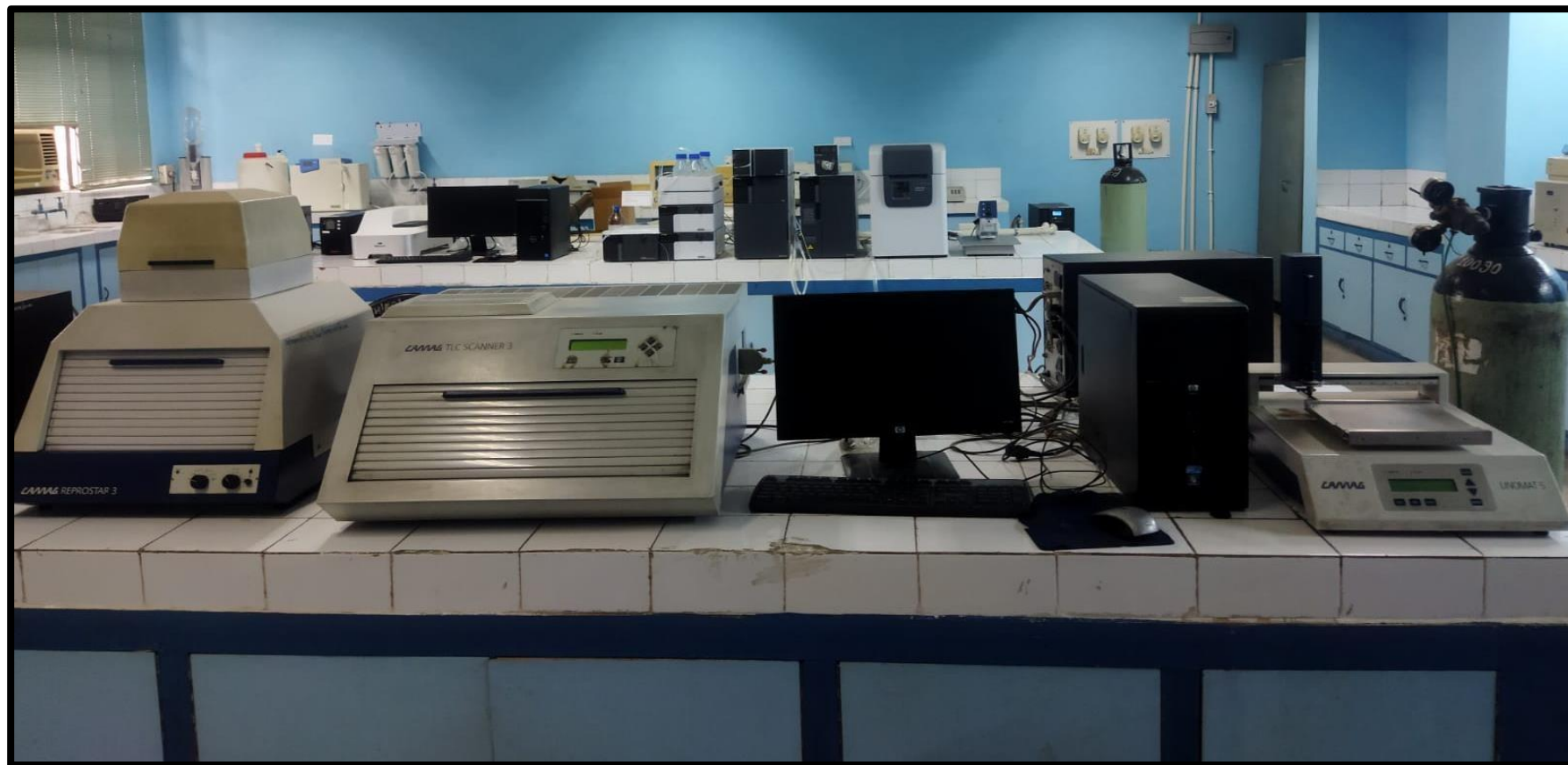
# LC-MS



# ELEMENTAL ANALYSER



# HPTLC





# PARTICLE SIZE ANALYSER



### **User charges of the equipments**

S. No.	Equipment	Usage Charges		
		For JH users	For other academic institutes	Industries/private laboratories
1.	<b>DSC (Perkin Elmer, Pyris-6)</b>	Rs. 300/- per sample	Rs. 500/- per sample	Rs. 1000/- per sample
2.	<b>UV-VIS Spectrophotometer (Shimadzu, UV-1601)</b>	Rs. 200/- per sample	Rs. 200/- per sample	Rs. 700/- per sample
3.	<b>LC-MS/MS (Waters, Xevo TQD)*</b> Intact Mass/MW determination:	Rs. 400/- per sample	Rs. 800/- per sample	Rs. 1500/- per sample
	<b>LC-MS/MS (Waters, Xevo TQD)*</b> MS/MS analysis (Qualitative)	Rs. 600/- per sample	Rs. 2000/- per sample	Rs. 4000/- per sample
	<b>LC-MS/MS (Waters, Xevo TQD)*</b> UPLC-MS/MS analysis (Qualitative)	Rs. 1500/- per Precursor ion	Rs. 5,000/- per Precursor ion	Rs. 10,000/- per Precursor ion
	<b>LC-MS/MS (Waters, Xevo TQD)*</b> MS/MS analysis	Rs. 300/- per Precursor ion	Rs. 600/- per Precursor ion	Rs. 1500/- per Precursor ion

4.	<b><sup>1</sup>H NMR (Bruker Avance, 400 MHz)</b>	Rs.200/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	Rs. 350/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	750/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-
	<b><sup>13</sup>C and DEPT</b>	Rs.300/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	Rs. 500/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	1200/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-
	<b>2D Experiment</b>	Rs.500/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	Rs. 1000/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-	2000/- per sample. <b>Note:</b> Solvent Charge Extra D <sub>2</sub> O/DMSO-D <sub>6</sub> - Rs100/-; Acetone: Rs 400/-; Methanol D <sub>4</sub> : Rs 200/-
5.	<b>FTIR (Shimadzu, IR Affinity)</b>	Rs. 250/- per sample	Rs. 250/- per sample.	Rs. 750/- per sample
6.	<b>LC-MS (Shimadzu, 2020) For Direct Mass</b>	Rs. 500/- per sample (without method development)	Rs. 800/- per sample (without method development)	Rs. 1500/- per sample (without method development)
7.	<b>CRYO-TEM (Thermo Scientific, TALOS L 120C G2) Sample preparation for non-biological/nanoparticle</b>	Rs. 400/- per sample	Rs. 800/- per sample	Rs. 1500/- per sample
	<b>CRYO-TEM (Thermo Scientific, TALOS L 120C G2) TEM Viewing per sample (Max. no of images-10)</b>	Rs. 400/- per sample	Rs. 800/- per sample	Rs. 2000/- per sample
	<b>CRYO-TEM (Thermo Scientific, TALOS L 120C G2) Cost per image thereafter</b>	Rs. 40/-	Rs. 80/-	Rs. 150/-
	<b>CRYO-TEM (Thermo Scientific, TALOS L 120C G2) EDX</b>	Rs. 300/- per sample	Rs. 600/- per sample	Rs. 1000/- per sample
8.	<b>Texture Analyzer (Stable Microsystems, TA.XT PLUS)</b>	Rs. 200/- per sample	Rs 300/- per sample	Rs 800/- per sample
9.	<b>Elisa Reader (Electronic Corp. India Ltd., MS 5608A)</b>	Rs. 300/- per plate	Rs 500/- per plate	Rs 1000/- per plate
10.	<b>HPTLC (Camag, TLC</b>	Rs. 400/- per sample	Rs. 800/- per sample	Rs. 1500/- per

	<b>Scanner 3, Linomat 5)</b>			sample
11.	<b>Elemental Analyzer (Elementar, Unicube) Carbon, Hydrogen, Nitrogen &amp; Sulphur</b>	Rs. 200/- per sample	Rs. 300/- per sample	Rs. 600/- per sample
12	<b>Zetasizer (Malvern, Advance Series-Lab Blue)</b>	Rs. 50/- per sample	Rs. 100/- per sample	Rs. 300/- per sample

\*Specific biochemical, consumable, plastic/glassware has to be brought by users.

**[ONLINE PAYMENT INSTRUCTIONS](#)** NEW!

**[ONLINE PAYMENT LINK](#)** NEW!

**Download the requisition form from our website & send the filled requisition form by e- mail to [drabidkamal@jamiahamdard.ac.in](mailto:drabidkamal@jamiahamdard.ac.in)**

**NOTE: Users have to pay service tax with user charges according to GST Act. For internal students, limited number of samples are free and then they have to pay according to the user charges.**

**Prof. Asif Husain  
In charge CIF, SPER**





**Central Instrumentation Facility (CIF)**  
**School of Pharmaceutical Education & Research (SPER), Jamia Hamdard**  
**Requisition Form**

**Student/User Name**

**Supervisor Name**

**E-mail**

**E-mail**

**Department / Centre**

**Name and address of the institute**

**Telephone/mobile number**

**Date of Request**

**Expected date of Measurement**

**Technique to be used**

- ☐ DSC
- ☐ HPTLC
- ☐ LC-MS
- ☐ UV-Visible Spectrophotometer
- ☐ Texture Analyzer
- ☐ Elemental Analyzer
- ☐ FT-IR
- ☐ Zetasizer (DLS)

**User category**

- ☐ JH (Please write enrolment no)
- ☐ Other Institution
- ☐ Industry

**Mode of payment**

Online (Please write reference no)

**Number of samples**

**Sample type and name**

**Details of DD/Cheque (For others):**

**Nature of the characterization required:**

- ☐ Sample characterization only
- ☐ Sample characterization and analysis

**Important Note:**

Kindly consult CIF staff for sample preparation details before characterization.

**Undertaking:**

I/we undertake to abide by the safety and sample preparation guidelines and precautions during testing of my sample. I/we shall not claim for any damage/harm to my samples submitted for the analysis using CIF equipment.

I/we shall give due acknowledgment to CIF for measurement and help in the results (if any) so published in journals and inform CIF about the publications which acknowledges the use of CIF facilities. A copy of the published paper may please be submitted for CIF records.

**User/Student Signature**

**Supervisor Signature/Stamp**

**Contact Details:**

Dr. Abid Kamal

Central Instrumentation Facility, Room No.312, Second Floor, School of Pharmaceutical Education

Research, Jamia Hamdard, Hamdard Nagar, New Delhi-110062.

Mob: 9899037073 ; Email: drabidkamal786@jamiahamdard.ac.in



**Central Instrumentation Facility**  
**UPLC-MS/MS Lab**  
**School of Pharmaceutical Education and Research (SPER)**

Date: \_\_\_\_\_

**Requisition for LCMS Spectral Analysis**

1. Name of Student \_\_\_\_\_
2. Name of Supervisor \_\_\_\_\_
3. Department & Faculty \_\_\_\_\_
4. Course \_\_\_\_\_
5. Total no. samples \_\_\_\_\_
6. Fill up the following table

S.No.	Sample Code	Solubility	Expected Mol. Wt.	Mol. formula	Spectra Required

**NOTE:**

1. LCMS grade solvent should be provided by the candidate
2. Compounds should be pure and completely soluble in the solvent
3. Certified that the samples submitted for LCMS spectral analysis belong to the research work of the concerned student only.
4. Bring one **empty CD**.

Sign (Candidate)

Sign (Supervisor)

CIF Incharge, SPER

E-mail ID of Supervisor:

Contact No. of students:



**Central Instrumentation Facility  
School of Pharmaceutical Education and Research  
Jamia Hamdard**

Date:

**Requisition for NMR spectra**

1. Name of student:
2. Name of Supervisor
3. Department/ Faculty:
4. Course:
5. Total number of free sample analyzed till date:

Code no. of sample	Solubility	Spectra required

Note:

1. Compound should be pure and completely soluble in the solvent. Kindly check it before submitting the samples.
2. This is to certify that the sample submitted for NMR spectra analysis belong to the research work of the concerned student only

Signature of Candidate

Signature of Supervisor

Dr. M. Shaquiquzzaman  
Assistant Professor

(Prof. Asif Husain)  
In charge CIF, SPER



**Central Instrumentation Facility**  
**School of Pharmaceutical Education & Research (SPER), Jamia Hamdard, New Delhi.**  
**Requisition Form for TEM**

**Request for:**

Sample Preparation	EM Viewing	EDX
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**S.No.** \_\_\_\_\_

**Date:** \_\_\_\_\_

Name & Address of  
Investigator with  
Designation: \_\_\_\_\_

Email & Mobile No: \_\_\_\_\_

User Name &  
Designation: \_\_\_\_\_

Email & Mobile No: \_\_\_\_\_

User Category:	JH	Other Govt. Institutions	Industry/ Private
<u>Mode of Payment:</u>	Internal Fund Transfer/Online	Online (please mention reference no)	Online (please mention reference no)
<u>Details</u> :			

Type of Sample: \_\_\_\_\_ Number of Samples: \_\_\_\_\_ Name of fixative: \_\_\_\_\_

Hazard/ Toxicity: \_\_\_\_\_ Solvent to be used: \_\_\_\_\_ Desired magnification (if any): \_\_\_\_\_

Any other (please specify): \_\_\_\_\_

**Undertaking**

I/We undertake to abide by the safety and sample preparation guidelines and precautions during testing of my samples. I/We shall not claim for any damage/harm to my samples submitted for the analysis by CIF equipments.

I/We shall give due acknowledgement of CIF in published journals and also inform CIF about the publications which acknowledges the use of CIF facilities.

CIF shall not take any responsibility about the analysis, interpretation and publication of data acquired using equipments at CIF.

**Signature of User**

**Date of submission of requisition**

**Signature of the Investigator**

**Signature**

**In charge-TEM**

**Signature of CIF Incharge**

**Date of submission of requisition**

**Note:**

- Biological samples will be accepted only after primarily fixation with suitable fixative.
- For TEM, samples should be trimmed into 1.0-1.5mm thick pieces (4-5 pieces for each sample).
- Fixation may be done in 2.5% Glutaraldehyde and 2% paraformaldehyde made in 0.1M sodium phosphate buffer (pH 7.2). The fixed sample should be brought at CIF, JH in fixative or in phosphate buffer at 4°C preferably between 10 am to 1 pm (Working days).
- Maximum of 10 samples per requisition form will be accepted for analysis in one day.

**For Office Use Only:**

Deposit Amount: .....

Details of Slip: .....

Signature of Depositor: .....

**Important Note:** Kindly consult CIF staff for sample/sample preparation before bringing your samples for analysis.

**Contact Details:**

Dr. Abid Kamal, Central Instrumentation Facility, Room No.312, Second Floor, School of Pharmaceutical Education & Research, Jamia Hamdard, Hamdard Nagar, New Delhi-110062. Mob: **9899037073**;

Email ID: **drabidkamal@jamiahamdard.ac.in**