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CENTRAL INSTRUMENTATION FACILITY (CIF) SCHOOL OF PHARMACEUTICAL EDUCATION & RESEARCH (SPER) JAMIA HAMDARD

INTRODUCTION

The Central Instrumentation Facility (CIF), SPER was established with a vision to provide advance research facilities to all researchers within and outside University. The CIF was inaugurated on July 24, 2002. It has a variety of sophisticated analytical instruments including many state of the art instruments. This facility has been created to provide a centralized facility for all fields including Pharmaceutical, Physical, Biological, Allied and Interdisciplinary sciences. This facility fulfills the need by providing advanced analytical research to all academic research institutes & private industries/ companies. The CIF is working under headship of Prof. Dr. Asif Husain from Department of Pharmaceutical Chemistry, SPER. CIF is being operated by a full time Senior Technical Assistant Dr. Abid Kamal and a Lab Assistant Mr. Mushtaq Ahmad. For TEM analysis, we have a TEM operator and a Junior TEM operator to support the TEM facility. The list of instruments students can avail in CIF includes:

- 1. CRYO-TEM
- 2. LCMS/MS
- 3. NMR
- 4. PARTICLE SIZE ANALYSER (DLS)
- 5. ELEMENTAL ANALYSER
- 6. DSC
- 7. DISSOLUTION TEST SYSTEM
- 8. ELISA READER
- 9. TEXTURE ANALYSER
- 10. HPTLC
- 11. UV-VIS SPECTROPHOTOMETER
- 12. HPLC WATER PURIFIER

User charges of the equipments

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

4	111 NMD (Dansless	De 200/ per comple	Ps 350/ par sample	750/ par cample
4.	`		Rs. 350/- per sample. Note:	750/- per sample. Note:
		Solvent Charge Extra		
		_	_	D ₂ O/DMSO-D ₆ -
				Rs100/-;
		*	· ·	Acetone: Rs 400/-;
		· ·	Methanol D ₄ : Rs 200/-	-
		·	, , , , , , , , , , , , , , , , , , , ,	200/-
	¹³ C and DEPT	Rs.300/- per sample.	Rs. 500/- per sample.	1200/- per sample.
		Note:	Note:	Note:
		Solvent Charge Extra		
				D ₂ O/DMSO-D ₆ -
		The state of the s	· ·	Rs100/-;
			Acetone: Rs 400/-;	Acetone: Rs 400/-;
		Methanol D ₄ : Rs 200/-	Methanol D ₄ : Rs 200/-	
	AD E	D 500/	D 1000/	200/-
	2D Experiment		Rs. 1000/- per sample.	2000/- per sample.
			Note: Solvent Charge Extra	Notes
		<u>C</u>	D ₂ O/DMSO-D ₆ -	rvote:
			Rs100/-;	Solvent Charge Extra
		*	· · · · · · · · · · · · · · · · · · ·	D ₂ O/DMSO-D ₆ -
		*	Methanol D ₄ : Rs 200/-	
		14. 13 200/	1Viculation D4. R3 200/	Acetone: Rs 400/-;
				Methanol D ₄ : Rs
				200/-
5.	FTIR (Shimadzu, IR Affinity)	Rs. 250/- per sample	Rs. 250/- per sample.	Rs. 750/- per sample
6.	LC-MS (Shimadzu,	Rs. 500/- per sample	Rs. 800/- per sample	Rs. 1500/- per sample
	2020) For Direct Mass	(without method	(without method	(without method
		• '	development)	development)
7.	CRYO-TEM (Thermo	Rs. 400/- per sample	Rs. 800/- per sample	Rs. 1500/- per
	Scientific, TALOS L			sample
	120C G2) Sample			
	preparation for non-			
	biological/nanoparticle	D 400/	D 000/	D 2000/
	CRYO-TEM (Thermo	Ks. 400/- per sample	Rs. 800/- per sample	Rs. 2000/- per
	Scientific, TALOS L 120C G2) TEM			sample
	Viewing per sample			
	(Max. no of images-10)			
	CRYO-TEM (Thermo	Rs. 40/-	Rs. 80/-	Rs. 150/-
	Scientific, TALOS L	· · · · · · · · · · · · · · · · · · ·		
	120C G2) Cost per			
	image thereafter			
	CRYO-TEM (Thermo	Rs. 300/- per sample	Rs. 600/- per sample	Rs. 1000/- per
	Scientific, TALOS L			sample
	120C G2) EDX			
8.		Rs. 200/- per sample	Rs 300/- per sample	Rs 800/- per sample
	(Stable Microsystems,			
	TA.XT PLUS)			
10		D 200/ 1		
9.	Elisa Reader	Rs. 300/- per plate	Rs 500/- per plate	Rs 1000/- per plate
9.	Elisa Reader (Electronic Corp.	1 1	Rs 500/- per plate	Rs 1000/- per plate
9.	Elisa Reader			Rs 1000/- per plate Rs. 1500/- per

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

Note: Users have to pay service tax with user charges according to GST Act

Prof. Asif Husain Incharge CIF, SPER



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

Student/User Name		Superviso	or Name
E-mail		E-mail	
Department / Centre		Name and	d address of the institute
Telephone/mobile number	Date of Request		Expected date of Measurement
Technique to be used	User category	,	Mode of payment
DSC	JH (Pleas enrolment no)		Online (Please write reference no)
☐ HPTLC	Other Ins	titution	
☐ LC-MS	Industry		
UV-Visible Spectrophotometer	<u> </u>		
Texture Analyzer			
Elemental Analyzer			
☐ FT-IR			
Zetasizer (DLS)			
_0.0.0.10. (2.10)			
Number of samples Sa	mple type and name		Details of DD/Cheque (For others):
Nature of the characterization requ		portant No	
Sample characterization only		ndly consult aracterizatio	CIF staff for sample preparation details before on.
Sample characterization and anal	lysis		
any damage/harm to my samples submitte I/we shall give due acknowledgment to CI	ed for the analysis using CIF equip IF for measurement and help in the	oment. he results (if	ns during testing of my sample. I/we shall not claim for any) so published in journals and inform CIF about the r may please be submitted for CIF records.
Jser/Student Signature		Superv	isor Signature/Stamp
Contact Details:			

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

Dr. Abid Kamal

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

			Da	ite:
	Requisition 1	for LCMS Spectral An	alysis	
1. Name of Student				
2. Name of Supervisor	or			
3. Department & Fac	ulty			
4. Course				
5. Total no. samples				
6. Fill up the followi	ng table	*8		
S.No. Sample Code		Expected Mol. Wt.	Mol. formula	Spectra Required
	S 1000000 100 100 100 100 100 100 100 10			
				
	J		J	J
NOTE:				
*				
LCMS grade solv Compounds show	ent should be	provided by the candida completely soluble in t	ite a he solvent	
 Compounds shou Certified that the 	samples subm	itted for LCMS spectral	analysis belong t	o the research
work of the conce				
4. Bring one empty	CD.			
		8		
Sign (Candidate)	S	ign (Supervisor)	CIF Inchar	e SPER
E-mail ID of Supervisor	:		CH mennig	o-1 ~ 1 ~ 1
Contact No. of students:				



Central Instrumentation Facility School of Pharmaceutical Education and Research Jamia Hamdard

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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	1.	Name of student:	Requisition f	for NMR spectra	
4. Course: 5. Total number of free sample analyzed till date: Code no. of sample Solubility Spectra required Spectra required Note: 1. Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. 2. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Candidate Signature of Supervise.	2.	Name of Supervisor			
5. Total number of free sample analyzed till date: Code no. of sample	3.	Department/ Faculty:			
Note: 1. Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. 2. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only ignature of Candidate Signature of Supervise	4.	Course:			
Note: 1. Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. 2. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Candidate Signature of Supervise	5.	Total number of free	sample analyzed t	ill date:	
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Candidate Signature of Supervisor		Code no. of sample	Solubility	Spectra required	
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Supervise 					
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Candidate 					
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Supervise 					
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Supervise 					
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Candidate 					
 Compound should be pure and completely soluble in the solvent. Kindly check it before su the samples. This is to certify that the sample submitted for NMR spectra analysis belong to the resear of the concerned student only Signature of Supervise 					
	1.	Compound should be p the samples. This is to certify that the	ne sample submitted	•	
	Signat	ture of Candidate		Signature	of Supervisor
Or. M. Shaquiquzzaman (Prof. Asif Husain) Assistant Professor In charge CIF, SPER		. Shaquiquzzaman			



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

Request for:	Sample Preparation	EM Viewing	EDX	S.No Date:
Name &Address of Investigator with Designation:				
Email & Mobile No	:			
User Name & Designation: Email & Mobile No	:			
User Category	y: JH	Other (Govt. Institutions	s Industry/ Private
Mode of Payme			ase mention	Online (please mention
Datail	Transfer/Online	reference n	0)	reference no)
<u>Details</u> :				
Type of Sample:			me of fixative:	
		_		if any):
Any other (please specify):			
damage/harm to my samples subr	nitted for the analysis by CIF equement of CIF in published journ	uipments. nals and also inform CII	about the publica	my samples. I/We shall not claim for any tions which acknowledges the use of CIF g equipments at CIF.
Signature of User Date of submission of a	requisition	Signature of the Inv	vestigator	Signature In charge-TEM
Signature of CIF Incharg Date of submission of requ				
 For TEM, samples shou Fixation may be done in brought at CIF, JH in fi Maximum of 10 samples For Office Use Only: 	be accepted only after primarily fixation of the determination of the de	ces (4-5 pieces for each sam maldehyde made in 0.1M soo preferably between 10 am to I for analysis in one day.	lium phosphate buffer 1 pm (Working days).	
	•••••			
Important Note: Kindly co				

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

Note: For internal students, limited number of samples is free and then they have to pay according to the user charges.